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SILIGURI INSTITUTE OF TECHNOLOGY

Department of Information Technology Report on Industrial Training on Data Structure with C

Training Details:

Training on Data Structure with C Resource Organization: ARDENT

Training Date: 17th August 2020 to 31st August 2020

Venue: **ONLINE MODE**

Student: 3rd Year IT (6th Semester)

Students Enrolled: 28

Students Completed Successfully: 28

Pass Out Year: 2021

Feedback Analysis: Attached

Student List: Attached

Introduction:

Data Structures is a concept a means of storing a collection of data. Computer Science is a concern with study of methods for effectively using a computer to solve problems. These can be solved by algorithms and data structures. Data Structures tells you what way the data as to store in computer memory and how to access the data efficiently. Many Applications are designed by data structures stack applications like page visited history in a web-browser, chain of method calls in the Java virtual machine or C++ Run-time environment etc. Queue Application Like Waiting Lines, Multi-programming etc. For many applications the choice of proper data structure is the only major decision involving the implementation. Majorly the database designing and internal implementation is done only by using Data Structures techniques through C programming language.

Training Objective:

This Course main objective for the student to understand Analysis and Designing of the Algorithms and how the different data structures are used for efficient accessing of the data and Manipulation of the data at the end of the session we can able to know different Kinds of data structures and we can able to provide different algorithms for time and space complexity.

Training Outcome:

After completed the training student will able to

- Understand the concept of data structures and its relevance in computer science.
- ❖ Familiarize with selected linear and nonlinear data structures.
- **!** Enhance skill in programming in C.

Training Methodology:

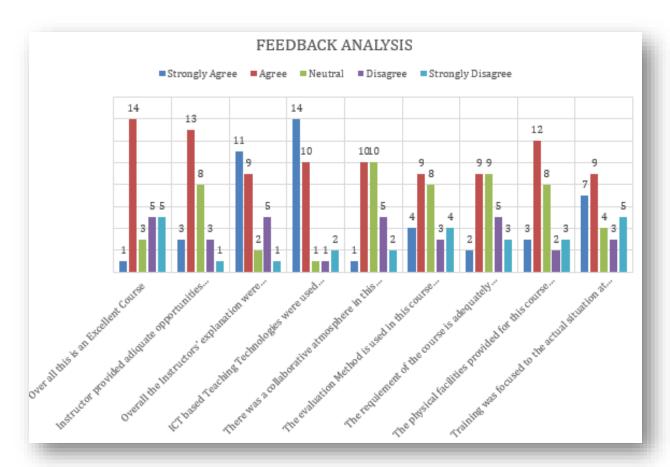
- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.

- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project using C language.

Summary:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction Data structure and c programming skill and its application in industries in different areas.
- ❖ Students had done many programming by themselves during the trainings.
- ❖ During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students' end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned many things about C Programming skill.



SN	ROLLNO	NAME	Remarks
1	11900217001	TONMAY DUTTA	Successfully Completed
2	11900217002	SOUYAMA DEBNATH	Successfully Completed
3	11900217003	SOUBHIK DUTTA	Successfully Completed
4	11900217004	SHINJINI SANYAL	Successfully Completed
5	11900217006	ROHIT KUMAR BARMAN	Successfully Completed
6	11900217008	RAJANI KANTA ROUTH	Successfully Completed
7	11900217009	PRINCE KUMAR	Successfully Completed
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15	11900217017	JYOTIRMAY DEB	Successfully Completed
16	11900217018	INDRA NATH MUKHERJEE	Successfully Completed
17	11900217019	HIMADRI BHATTACHARYA	Successfully Completed
18	11900217020	DIPAK BARMAN	Successfully Completed
19	11900217021	CHAYAN KARMAKAR	Successfully Completed
20	11900217022	BISWAJIT SHARMA	Successfully Completed
21	11900217023	BIKRAM BARMAN	Successfully Completed
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23	11900217025	BAISHALI SAHA	Successfully Completed
24	11900217026	AYAN DUTTA	Successfully Completed
25	11900217027	ARPAN BHAKTA	Successfully Completed
26	11900217028	ANUSHKA KUMARI	Successfully Completed
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28	11900217030	ADARSH RAI	Successfully Completed

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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

Report on Industrial Training on ML With Python

Training Details:

Training on Machine Learning with PYTHON

Resource Organization: ARDENT

Training Date: 16th September 2019 to 20th September 2019

Venue: **ONLINE MODE**

Student: 3rd Year IT (6th Semester)

Students Enrolled: 60

Students Completed Successfully: 60

Pass Out Year: 2020

Feedback Analysis: **Attached**

Student List: Attached

Introduction:

Artificial Intelligence (AI), Machine Learning (ML) and Data Science (DS) are the pillars of the fourth industrial revolution. ML is an application of AI which allows computers to automatically learn from data without being explicitly programmed. Python has been designed with the provision for creating Machine Learning algorithms. Python is preferred as the best and robust platform for Machine Learning systems. Python also has numerous libraries for machine learning, data manipulation and analysis as well as a very active development community that continuously updates and creates new packages. It has been adopted by a wide variety of industries and applications including Data Science, Machine Learning, Data Analytics, Predictive Analytics, Business Intelligence and Web Analytics. This workshop aims to explore Python Programming right from installation, fundamentals to Machine Learning algorithms.

The Training session covered the basic algorithm that helps us to build and apply prediction functions with an emphasis on practical applications. **Training Objectives**

Main objectives of training were to learn:

- •How to determine and measure program complexity,
- Python Programming
- •ML Library Scikit, Numpy, Matplotlib, Pandas, Theano, TensorFlow
- •Statistical Math for the Algorithms.
- •Learning to solve statistics and mathematical concepts.
- Supervised and Unsupervised Learning
- •Classification and Regression
- •ML Algorithms
- •Machine Learning Programming and Use Cases.

The outcomes of this workshop are:

- Understand the components of a Machine Learning algorithm.
- Apply Machine Learning tools to build and evaluate predictors

- How Machine Learning uses computer algorithms to search for patterns in data
- How to uncover hidden themes in large collections of documents using topic modeling
- How to prepare data, deal with missing data and create custom data analysis solutions for different industries
- Familiarity with Python installation, syntax and design

Why Python Is a Perfect Language for Machine Learning?

- 1. **A great library ecosystem -** A great choice of libraries is one of the main reasons Python is the most popular programming language used for AI. A library is a module or a group of modules published by different sources which include a pre-written piece of code that allows users to reach some functionality or perform different actions. Python libraries provide base level items so developers don't have to code them from the very beginning every time. ML requires continuous data processing, and Python's libraries let us access, handle and transform data. These are some of the most wide spread libraries we can use for ML and AI:
- Scikit-learnfor handling basic ML algorithms like clustering, linear and logistic regressions, regression, classification, and others.
- Pandasfor high-level data structures and analysis. It allows merging and filtering of data, aswell as gathering
 it from other external sources like Excel, for instance.
- Kerasfor deep learning. It allows fast calculations and prototyping, as it uses the GPU inaddition to the CPU of the computer.
- TensorFlowfor working with deep learning by setting up, training, and utilizing artificialneural networks with massive datasets.
- Matplotlibfor creating 2D plots, histograms, charts, and other forms of visualization.
- NLTK for working with computational linguistics, natural language recognition, and processing.
- Scikit-imagefor image processing.
- PyBrainfor neural networks, unsupervised and reinforcement learning.
- Caffefor deep learning that allows switching between the CPU and the GPU
- StatsModelsfor statistical algorithms and data exploration.

In the PyPI repository, we can discover and compare more python libraries.

2. **A low entry barrier** -Working in the ML and AI industry means dealing with a bunch of data that we need to process in the most convenient and effective way. The low entry barrier allows more data scientists to quickly pick up Python and start using it for AI development without wasting too much effort into learning the language.

In addition to this, there's a lot of documentation available, and Python's community is always there to help out and give advice

- 3. Flexibility- Python for machine learning is a great choice, as this language is very flexible:
 - It offers an option to choose either to use OOPs or scripting.
 - There's also no need to recompile the source code, developers can implement any
 - changes and quickly see the results.
 - Programmers can combine Python and other languages to reach their goals.
- 4. **Good Visualization Options-** For AI developers, it's important to highlight that in artificial intelligence, deep learning, and machine learning, it's vital to be able to represent data in a human-readable format. Libraries like Matplotlib allow data scientists to build charts, histograms, and plots for better data comprehension, effective presentation, and visualization. Different application programming interfaces also simplify the visualization process and make it easier to create clear reports.
- 5. **Community Support-** It's always very helpful when there's strong community support built around the programming language. Python is an open-source language which means that there's a bunch of resources

- open for programmers starting from beginners and ending with pros. A lot of Python documentation is available online as well as in Python communities and forums, where programmers and machine learning developers discuss errors, solve problems, and help each other out. Python programming language is absolutely free as is the variety of useful libraries and tools.
- 6. **Growing Popularity-**As a result of the advantages discussed above, Python is becoming more and more popular among data scientists. According to Stack Overflow, the popularity of Python is predicted to grow until 2020, at least. This means it's easier to search for developers and replace team players if required. Also, the cost of their work maybe not as high as when using a less popular programming language Data Preprocessing, Analysis & Visualization Machine Learning algorithms don't work so well with processing raw data. Before we can feed such data to an ML algorithm, we must preprocess it. We must apply some transformations on it. With data preprocessing, we convert raw data into a clean data set.

To perform data this, there are 7 techniques -

- 1. Rescaling Data -For data with attributes of varying scales, we can rescale attributes to possess the same scale. We rescale attributes into the range 0 to 1 and call it normalization. We use the Min Max Scaler class from scikit-learn. This gives us values between 0 and 1.
- 2. Standardizing Data -With standardizing, we can take attributes with a Gaussian distribution and different means and standard deviations and transform them into a standard Gaussian distribution with a mean of 0 and a standard deviation
- 3. Normalizing Data -In this task, we rescale each observation to a length of 1 (a unit norm). For this, we use the Normalizer class.
- 4. Binarizing Data -Using a binary threshold, it is possible to transform our data by marking the values above it 1 and those equal to or below it, 0. For this purpose, we use the Binarizer class.
- 5. Mean Removal-We can remove the mean from each feature to center it on zero.
- 6. One Hot Encoding -When dealing with few and scattered numerical values, we may not need to store these. Then, we can perform One Hot Encoding. For k distinct values, we can transform the feature into a k-dimensional vector with one value of 1 and 0 as the rest values.
- 7. Label Encoding -Some labels can be words or numbers. Usually, training data is labelled with words to make it readable. Label encoding converts word labels into numbers to let algorithms work on them

Machine Learning Algorithms:

There are many types of Machine Learning Algorithms specific to different use cases. As we work with datasets, a machine learning algorithm works in two stages. We usually split the data around 20%-80% between testing and training stages. Under supervised learning, we split a dataset into a training data and test data in Python ML. Followings are the Algorithms of Python Machine Learning -

- **1. Linear Regression-**Linear regression is one of the supervised Machine learning algorithms in Python that observes continuous features and predicts an outcome. Depending on whether it runs on a single variable or on many features, we can call it simple linear regression or multiple linear regression .This is one of the most popular Python ML algorithms and often under-appreciated. It assigns optimal weights to variables to create a line ax+b to predict the output. We often use linear regression to estimate real values like a number of calls and costs of houses based on continuous variables. The regression line is the best line that fits Y=a*X+b to denote a relationship between independent and dependent variables.
- **2. Logistic Regression** -Logistic regression is a supervised classification is unique Machine Learning algorithms in Python that find sits use in estimating discrete values like 0/1, yes/no, and true/false. This is based on a given set of independent variables. We use a logistic function to predict the probability of an event and this gives us an output between 0 and 1. Although it says 'regression', this is actually a classification algorithm. Logistic regression fits data into a logit function and is also called logit regression.

- **3. Decision Tree** -A decision tree falls under supervised Machine Learning Algorithms in Python and comes of use for both classification and regression- although mostly for classification. This model takes an instance, traverses the tree, and compares important features with a determined conditional statement. Whether it descends to the left child branch or the right depends on the result. Usually, more important features are closer to the root. Decision Tree, a Machine Learning algorithm in Python can work on both categorical and continuous dependent variables. Here, we split a population into two or more homogeneous sets. Tree models where the target variable can take a discrete set of values are called classification trees; in these tree structures, leave represent class labels and branches represent conjunctions of features that lead to those class labels. Decision trees where the target variable can take continuous values (typically real numbers) are called regression trees.
- **4. Support Vector Machine (SVM)-**SVM is a supervised classification is one of the most important Machines Learning algorithms in Python, that plots a line that divides different categories of your data. In this ML algorithm, we calculate the vector to optimize the line. This is to ensure that the closest point in each group lies farthest from each other. While you will almost always find this to be a linear vector, it can be other than that. An SVM model is are presentation of the examples as points in space, mapped so that the examples of the separate categories are divided by a clear gap that is as wide as possible. In addition to performing linear classification, SVMs can efficiently perform a non-linear classification using what is called the kernel trick, implicitly mapping their inputs into high-dimensional feature spaces. When data are unlabeled, supervised learning is not possible, and an unsupervised learning approach is required, which attempts to find natural clustering of the data to groups, and then map new data to these formed groups.
- **5. Naïve Bayes Algorithm -** Naive Bayes is a classification method which is based on Bayes' theorem. This assumes independence between predictors. A Naive Bayes classifier will assume that a feature in a class is unrelated to any other. Consider a fruit. This is an apple if it is round, red, and 2.5 inches in diameter. A Naive Bayes classifier will say these characteristics independently contribute to the probability of the fruit being an apple. This is even if features depend on each other. For very large data sets, it is easy to build a Naive Bayesian model. Not only is this model very simple, it performs better than many highly sophisticated classification methods. Naïve Bayes classifiers are highly scalable, requiring a number of parameters linear in the number of variables (features/predictors) in a learning problem. Maximum-likelihood training can be done by evaluating a closed-form expression, which takes linear time, rather than by expensive iterative approximation as used for many other types of classifiers.
- **6. k NN Algorithm** -This is a Python Machine Learning algorithm for classification and regression- mostly for classification. This is a supervised learning algorithm that considers different centurions and uses a usually Euclidean function to compare distance. Then, it analyzes the results and classifies each point to the group to optimize it to place with all closest points to it. It classifies new cases using a majority vote of k of its neighbors. The case it assigns to a class is the one most common among its K nearest neighbors. For this, it uses a distance function. k-NN is a type of instance-based learning, or lazy learning, where the function is only approximated locally and all computation is deferred until classification.

k-NN is a special case of a variable-bandwidth, kernel density "balloon" estimator with a uniform kernel.

7. K-Means Algorithm -k-Means is an unsupervised algorithm that solves the problem of clustering. It classifies data using a number of clusters. The data points inside a class are homogeneous and heterogeneous to peer groups. k-means clustering is a method of vector quantization, originally from signal processing, that is popular for cluster analysis in data mining. k -means clustering aims to partition n observations into k-clusters in which each observation belongs to the cluster with the nearest mean, serving as a prototype of the cluster. k-means clustering is rather easy to apply to even large data sets, particularly when using heuristics such as Lloyd'

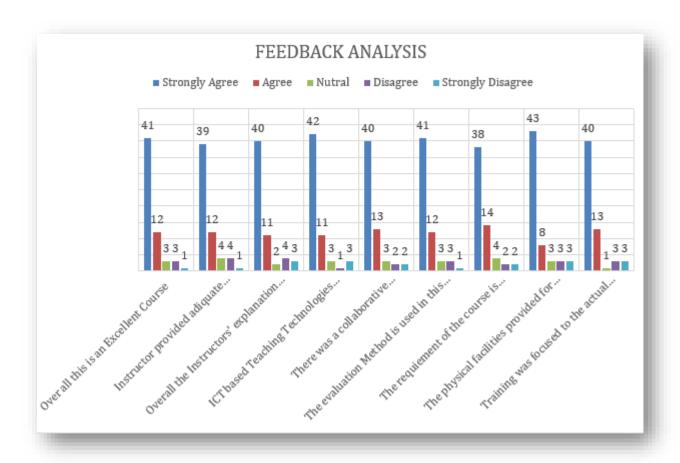
s algorithm. It often is used as a preprocessing step for other algorithms, for example to find a starting configuration.

The problem is computationally difficult(NP-hard). k-means originates from signal processing, and still finds use in this domain. In cluster analysis, the k-means algorithm can be used to partition the input data set into k partitions (clusters).

k-means clustering has been used as a feature learning (or dictionary learning) step, in either(semi-)supervised learning or unsupervised learning.

8.Random Forest - A random forest is an ensemble of decision trees. In order to classify every new object based on it s attributes, trees vote for class- each tree provides a classification. The classification with the most votes win sin the forest. Random forests or random decision forests are an ensemble learning method for classification, regression and other tasks that operates by constructing a multitude of decision trees at training time and outputting the class that is the mode of the classes (classification) or mean prediction (regression) of the individual trees.

Feedback Analysis:



SN	ROLL NO	NAME	Remarks
1	11900216001	VISAL HAZRA	Successfully Completed
2	11900216002	UJJAYINEE MAJUMDER	Successfully Completed
3	11900216003	TUHIN BANERJEE	Successfully Completed

4	11900216004	TAPAS KR PRAMANIK	Successfully Completed
4	11900216005	SWATI KUMARI	Successfully Completed
5 6	11900216006	SWAGATA SARKAR	Successfully Completed
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17	11900216017	ROHAN MITRA	Successfully Completed
18	11900216018	RASHMI PRASAD	Successfully Completed
19	11900216019	RAMAKANT PRASAD	Successfully Completed
20	11900216020	RAJ ROY	Successfully Completed
21	11900216021	RAINAK BASAK	Successfully Completed
22	11900216022	RAINA CHOUDHURY	Successfully Completed
23	11900216023	RAHUL KUMAR	Successfully Completed
24	11900216024	RAHUL CHOUDHURI	Successfully Completed
25	11900216025	PURBITA PAL	Successfully Completed
26	11900216027	PRATIK BOSE	Successfully Completed
27	11900216028	POOJA SINGH	Successfully Completed
28	11900216029	PANKAJ CHAUDHURI	Successfully Completed
29	11900216030	NIKITA GHOSH	Successfully Completed
30	11900216031	NIKESH KUMAR SAH	Successfully Completed
31	11900216032	NAMRATA DUTTA	Successfully Completed
32	11900216033	MEGHA BHATTACHARJEE	Successfully Completed
33	11900216034	MANISHA JHA	Successfully Completed
34	11900216035	MADHUSHREE MAJUMDAR	Successfully Completed
35	11900216036	KAUSTAV DAS	Successfully Completed
36	11900216037	KARTIK ROY	Successfully Completed
37	11900216038	GITASHREE SAHA	Successfully Completed
38	11900216039	DREEK GUHA	Successfully Completed
39	11900216040	DIVYANSHU PRAKASH PUNJ	Successfully Completed
40	11900216041	DIPAYAN GHOSH	Successfully Completed
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42	11900216044	DEBJYOTI JHA	Successfully Completed
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46	11900216048	BIKASH GURAGAI	Successfully Completed
47	11900216049	AYUSH ANAND	Successfully Completed
48	11900216050	AYAN MUKHOPADHYAY	Successfully Completed
49	11900216051	AVISHEK DAS	Successfully Completed
50	11900216052	AUROSHREE MUKHERJEE	Successfully Completed
51	11900216053	ASHMITA BASU MAZUMDAR	Successfully Completed
52	11900216054	ARYA ROY	Successfully Completed
53	11900216055	ARVI HASSAN	Successfully Completed
54	11900216056	ARUP DAS	Successfully Completed
55	11900216057	ARITRA BHATTACHARJEE	Successfully Completed
56	11900216058	ARINDAM PODDER	Successfully Completed
57	11900216059	ARGHYADEEP PANDIT	Successfully Completed
58	11900216061	ANKITA PAUL CHOWDHURY	Successfully Completed
59	11900216062	AKASH KUMAR	Successfully Completed
60	11900216063	ABHISHEK PRASAD SINGH	Successfully Completed

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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGYIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: 18th January 2018 to 28th January 2018

Venue: SIT, OT&UML Lab

Student: 3rd Year IT (6th Semester)

Students Enrolled: 41

Students Completed Successfully: 41

Pass Out Year: 2019

Feedback Analysis: Attached

Student List: Attached

Introduction

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. In the Training provides a quick introduction to Big Data, Map Reduce algorithm, and Hadoop Distributed File System.

Training Objective:

- Upon completion of this course, participants will be able to:
- Understand fundamentals of Concepts in Bigdata and hadoop etc
- Understand fundamentals of Hadoop etc.
- Be able to use the HDFS file system, debug and run simple Java programs for hdfs.
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

What is Big Data?

Big data means really a big data, it is a collection of large datasets that cannot be processed using traditional computing techniques. Big data is not merely a data, rather it has become a complete subject, which involves various tools, techniques and frameworks.

Advantages of Hadoop:

- Hadoop framework allows the user to quickly write and test distributed systems. It is efficient, and it automatic distributes the data and work across the machines and in turn, utilizes the underlying parallelism of the CPU cores.
- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

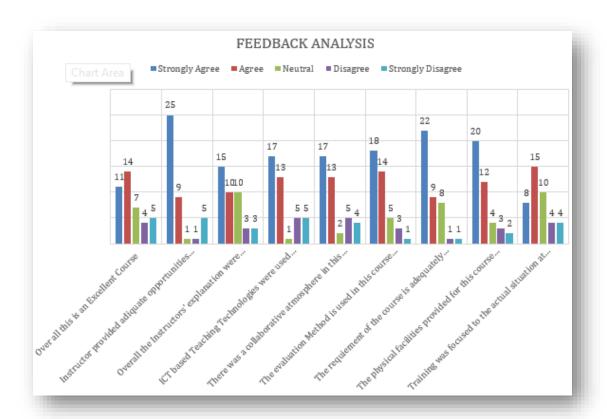
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- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
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- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to java its application in industries in different areas.
- Students had done many data analysis algorithm by themselves during the trainings.
- During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned framework of Hadoop.



SN	ROLLNO	NAME	Remarks
1	11900215001	ABHISHEK CHOUDHARY	Successfully Completed
2	11900215002	ABIR NANDY	Successfully Completed
3	11900215003	ADRIJA ROY	Successfully Completed
4	11900215004	AIJURA KSHIAR	Successfully Completed
5	11900215005	AKASH DAS	Successfully Completed
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23	11900215025	MANISH ANAND	Successfully Completed
24	11900215026	MAYURI ROY	Successfully Completed
25	11900215027	MD MUKHLESUR RAHAMAN	Successfully Completed
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27	11900215029	NITA SARKAR	Successfully Completed
28	11900215030	OM KUMARI PRADHAN	Successfully Completed
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33	11900215036	RASHMI KUMARI	Successfully Completed
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39	11900215042	SWAGATA SAHA	Successfully Completed
40	11900215043	TANFEEZ AHSAN	Successfully Completed
41	11900215044	TUHIN ROY	Successfully Completed

SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGYIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: **16th July 2017 to 17th July 2018**

Venue: SIT, OT&UML Lab

Student: 3rd Year IT (6th Semester)

Students Enrolled: 16

Students Completed Successfully: 16

Pass Out Year: 2018

Feedback Analysis: **Attached**

Student List: Attached

Introduction

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- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

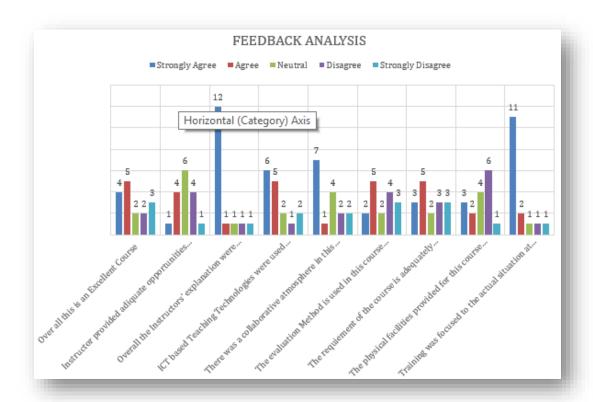
Training Methodology:

- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to java its application in industries in different areas.
- Students had done many data analysis algorithm by themselves during the trainings.
- During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students' end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned framework of Hadoop.



SN	ROLL NO.	NAME	Remarks
1	11900214001	ARABINDA ROY	Successfully Completed
2	11900214002	ARPAN PAUL	Successfully Completed
3	11900214003	BINEETA MAJUMDER	Successfully Completed
4	11900214004	BIPUL SARKAR	Successfully Completed
5	11900214005	DEEPAK SINGH	Successfully Completed
6	11900214006	JYOTI KUMARI GUPTA	Successfully Completed
7	11900214007	NAIRITH DAS	Successfully Completed
8	11900214008	NAYAN KUMAR	Successfully Completed
9	11900214009	PRABHAT PUSHKAR	Successfully Completed
10	11900214010	PUJA KUMARI	Successfully Completed
11	11900214011	SAHELI PYNE	Successfully Completed
12	11900214012	SOUBHIK DAS	Successfully Completed
13	11900214013	SUSHRI PAUL	Successfully Completed
14	11900214015	VINEET KUMAR	Successfully Completed
15	11900214016	YEAKUTUN NESSA	Successfully Completed
16	11900215045	DEBOJIT PAUL	Successfully Completed

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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGYIndustrial Training Report on Advanced JAVA

Training Details:

Training on Big Data / Hadoop

Resource Organization: NSIC

Training Date: 1st August 2016 to 12th August 2016

Venue: SIT, Programming Lab I/SIT, Programming Lab II/OT&UML Lab

Student: 3rd Year IT (6th Semester)

Students Enrolled: 17

Students Completed Successfully: 17

Pass Out Year: 2017

Feedback Analysis: Attached

Student List: Attached

Introduction:

Apart from University requirement, Java is also a pre-requisite for learning latest technologies like Android and Big Data. In order to prepare and make students ready for industry Computer science department has carved out a course that specifically aligns with industry requirements and conducted by industry experts.

In this training session students learned basic object oriented concepts such as inheritance, encapsulation, and abstraction. They learn how to create and use simple Java classes containing arrays, loops, and conditional constructs. They also learn to use and manipulate object references, and to write simple error handling code. They also learned some advance topic like JDBC connectivity, JSP, Servlates.

Training Objective:

Upon completion of this course, participants will be able to:

- Understand fundamentals of Java programming such as variables, conditional and iterative execution, methods, etc
- Understand fundamentals of object-oriented programming using Java, including defining classes, invoking methods, using class libraries, etc.
- Be able to use the Java SDK environment to create, debug and run simple Java programs
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

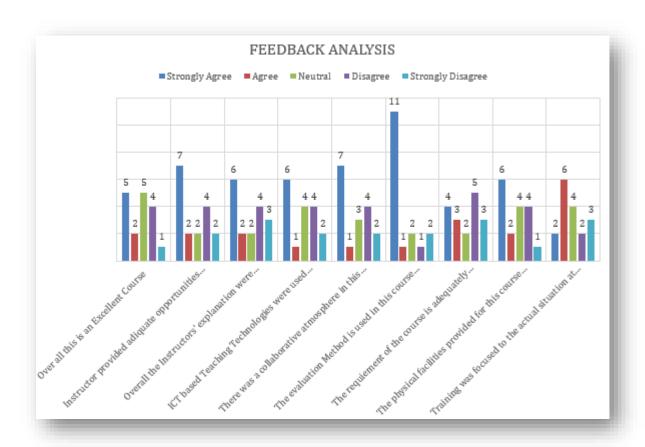
Training Methodology:

- Online on approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to, OOPs programming and java its application in industries in different areas with the students.
- Students had done many programming by themselves during the trainings.
- ❖ During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students end, the entire session was really fruitful
- and enjoyable and the students have learned many things about Java



SN	ROLL NO.	NAME	Remarks
1	11900213001	ABHISHEK KUMAR LAL	Successfully Completed
2	11900213002	AMIT KUMAR ROY	Successfully Completed
3	11900213003	ANAND KESHAV	Successfully Completed
4	11900213004	ANINDITA BHATTACHARJEE	Successfully Completed
5	11900213005	KUMARI RIAH	Successfully Completed
6	11900213006	MANISH THAKUR	Successfully Completed
7	11900213007	MUKESH KUMAR BURNWAL	Successfully Completed
8	11900213008	POONAM SONAR	Successfully Completed
9	11900213009	RAHUL KUMAR SHAW	Successfully Completed
10	11900213010	RAMU CHHETRI	Successfully Completed
11	11900213011	RITESH SHAW	Successfully Completed
12	11900213012	RITUPARNA DAS	Successfully Completed
13	11900213013	SANCHITA MONDAL	Successfully Completed
14	11900213014	SUBHANKAR BISWAS	Successfully Completed
15	11900213015	SUSHMITA ROY	Successfully Completed
16	11900213016	SWAGAT BHATTACHARJEE	Successfully Completed
17	11900213018	YASHASBI GUPTA	Successfully Completed

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SILIGURI INSTITUTE OF TECHNOLOGY

Department of Computer Science & Engineering Report on Industrial Training on Data Structure with C

Training Details:

Training on Data Structure with C Resource Organization: ARDENT

Training Date: 17th August 2020 to 31st August 2020

Venue: **ONLINE MODE**

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 96

Students Completed Successfully: 96

Pass Out Year: 2021

Feedback Analysis: Attached

Student List: Attached

Introduction:

Data Structures is a concept a means of storing a collection of data. Computer Science is a concern with study of methods for effectively using a computer to solve problems. These can be solved by algorithms and data structures. Data Structures tells you what way the data as to store in computer memory and how to access the data efficiently. Many Applications are designed by data structures stack applications like page visited history in a web-browser, chain of method calls in the Java virtual machine or C++ Run-time environment etc. Queue Application Like Waiting Lines, Multi-programming etc. For many applications the choice of proper data structure is the only major decision involving the implementation. Majorly the database designing and internal implementation is done only by using Data Structures techniques through C programming language.

Training Objective:

This Course main objective for the student to understand Analysis and Designing of the Algorithms and how the different data structures are used for efficient accessing of the data and Manipulation of the data at the end of the session we can able to know different Kinds of data structures and we can able to provide different algorithms for time and space complexity.

TRAINING OUTCOME:

After completed the training student will able to

- Understand the concept of data structures and its relevance in computer science.
- ❖ Familiarize with selected linear and nonlinear data structures.
- Enhance skill in programming in C.

Training Methodology:

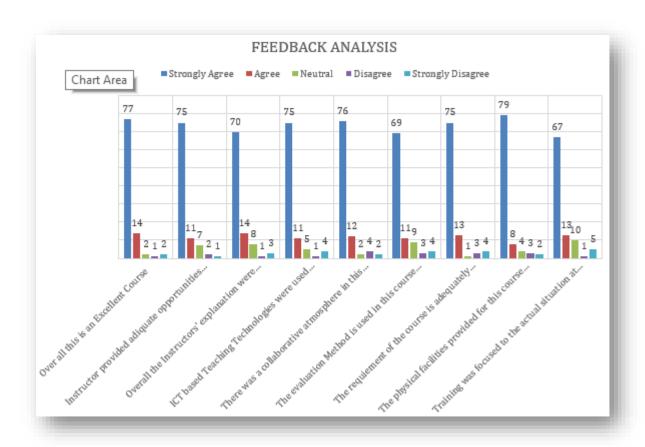
- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.

- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project using C language.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction Data structure and c programming skill and its application in industries in different areas.
- Students had done many programming by themselves during the trainings.
- ❖ During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students' end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned many things about C Programming skill.



SN	ROLLNO	NAME	Remarks
1	11900117007	VISHAL GUPTA	Successfully Completed
2	11900117008	TAUSIF KHAN	Successfully Completed
3	11900117009	TANUSREE HALDER	Successfully Completed
4	11900117010	TANUSHREE PANDIT	Successfully Completed
5	11900117011	SWATI SINGH	Successfully Completed
6	11900117012	SUSWAGATA CHAKRABORTY	Successfully Completed
7	11900117013	SURABHI GOPE	Successfully Completed
8	11900117014	SUJEET KUMAR	Successfully Completed
9	11900117015	SUDARSHAN SHARMA	Successfully Completed
10	11900117016	SRESTHA ROY	Successfully Completed
11	11900117017	SOURAV GHOSH	Successfully Completed
12	11900117018	SHWETA DAS	Successfully Completed
13	11900117019	SHUBHANGKAR CHAKRABORTY	Successfully Completed
14	11900117020	SHRITHI BASUMATA	Successfully Completed
15	11900117021	SHREYAM SAHA	Successfully Completed
16	11900117022	SAURAV KUMAR	Successfully Completed
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19	11900117025	SATYAM KUMAR	Successfully Completed
20	11900117026	SANDIP DAS	Successfully Completed
21	11900117027	SAKET GAUTAM	Successfully Completed
22	11900117028	SAFWAN SARWAR	Successfully Completed
23	11900117029	ROHIT ISOR	Successfully Completed
24	11900117030	ROHIT GOWALA	Successfully Completed
25	11900117031	RIYA DUTTA	Successfully Completed
26	11900117032	RINKI KUNDU	Successfully Completed
27	11900117033	RICKY SAHA	Successfully Completed
28	11900117034	RAMIZ HOSSAIN	Successfully Completed
29	11900117035	RAHUL CHAKRABORTY	Successfully Completed
30	11900117036	PURABI DAS	Successfully Completed
31	11900117037	PRIYANKA PRASAD	Successfully Completed

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61 11900117069 BISHAL DHAIR Successfully Completed	61	11900117069	BISHAL DHAIR	Successfully Completed
62 11900117070 BHASKAR RAY Successfully Completed	62	11900117070	BHASKAR RAY	Successfully Completed
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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on Industrial Training on ML With Python

Training Details:

Training on Machine Learning with PYTHON

Resource Organization: ARDENT

Training Date: 16th September 2019 to 20th September 2019

Venue: **ONLINE MODE**

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 92

Students Completed Successfully: 92

Pass Out Year: 2020

Feedback Analysis: **Attached**

Student List: Attached

Introduction:

Artificial Intelligence (AI), Machine Learning (ML) and Data Science (DS) are the pillars of the fourth industrial revolution. ML is an application of AI which allows computers to automatically learn from data without being explicitly programmed. Python has been designed with the provision for creating Machine Learning algorithms. Python is preferred as the best and robust platform for Machine Learning systems. Python also has numerous libraries for machine learning, data manipulation and analysis as well as a very active development community that continuously updates and creates new packages. It has been adopted by a wide variety of industries and applications including Data Science, Machine Learning, Data Analytics, Predictive Analytics, Business Intelligence and Web Analytics. This workshop aims to explore Python Programming right from installation, fundamentals to Machine Learning algorithms.

The Training session covered the basic algorithm that helps us to build and apply prediction functions with an emphasis on practical applications. **Training Objectives**

Main objectives of training were to learn:

- •How to determine and measure program complexity,
- Python Programming
- •ML Library Scikit, Numpy, Matplotlib, Pandas, Theano, TensorFlow
- •Statistical Math for the Algorithms.
- •Learning to solve statistics and mathematical concepts.
- Supervised and Unsupervised Learning
- •Classification and Regression
- •ML Algorithms
- •Machine Learning Programming and Use Cases.

The outcomes of this workshop are:

Understand the components of a Machine Learning algorithm.

- Apply Machine Learning tools to build and evaluate predictors
- How Machine Learning uses computer algorithms to search for patterns in data
- How to uncover hidden themes in large collections of documents using topic modeling
- How to prepare data, deal with missing data and create custom data analysis solutions for different industries
- Familiarity with Python installation, syntax and design

Why Python Is a Perfect Language for Machine Learning?

- 1. **A great library ecosystem -** A great choice of libraries is one of the main reasons Python is the most popular programming language used for AI. A library is a module or a group of modules published by different sources which include a pre-written piece of code that allows users to reach some functionality or perform different actions. Python libraries provide base level items so developers don't have to code them from the very beginning every time. ML requires continuous data processing, and Python's libraries let us access, handle and transform data. These are some of the most wide spread libraries we can use for ML and AI:
- Scikit-learnfor handling basic ML algorithms like clustering, linear and logistic regressions, regression, classification, and others.
- Pandasfor high-level data structures and analysis. It allows merging and filtering of data, aswell as gathering
 it from other external sources like Excel, for instance.
- Kerasfor deep learning. It allows fast calculations and prototyping, as it uses the GPU inaddition to the CPU of the computer.
- TensorFlowfor working with deep learning by setting up, training, and utilizing artificialneural networks with massive datasets.
- Matplotlibfor creating 2D plots, histograms, charts, and other forms of visualization.
- NLTK f or working with computational linguistics, natural language recognition, and processing.
- Scikit-imagefor image processing.
- PyBrainfor neural networks, unsupervised and reinforcement learning.
- Caffefor deep learning that allows switching between the CPU and the GPU
- StatsModelsfor statistical algorithms and data exploration.

In the PyPI repository, we can discover and compare more python libraries.

2. **A low entry barrier** -Working in the ML and AI industry means dealing with a bunch of data that we need to process in the most convenient and effective way. The low entry barrier allows more data scientists to quickly pick up Python and start using it for AI development without wasting too much effort into learning the language.

In addition to this, there's a lot of documentation available, and Python's community is always there to help out and give advice

- 3. Flexibility- Python for machine learning is a great choice, as this language is very flexible:
 - It offers an option to choose either to use OOPs or scripting.
 - There's also no need to recompile the source code, developers can implement any
 - changes and quickly see the results.
 - Programmers can combine Python and other languages to reach their goals.
- 4. **Good Visualization Options-** For AI developers, it's important to highlight that in artificial intelligence, deep learning, and machine learning, it's vital to be able to represent data in a human-readable format. Libraries like Matplotlib allow data scientists to build charts, histograms, and plots for better data comprehension, effective presentation, and visualization. Different application programming interfaces also simplify the visualization process and make it easier to create clear reports.

- 5. **Community Support-** It's always very helpful when there's strong community support built around the programming language. Python is an open-source language which means that there's a bunch of resources open for programmers starting from beginners and ending with pros. A lot of Python documentation is available online as well as in Python communities and forums, where programmers and machine learning developers discuss errors, solve problems, and help each other out. Python programming language is absolutely free as is the variety of useful libraries and tools.
- 6. **Growing Popularity-**As a result of the advantages discussed above, Python is becoming more and more popular among data scientists. According to Stack Overflow, the popularity of Python is predicted to grow until 2020, at least. This means it's easier to search for developers and replace team players if required. Also, the cost of their work maybe not as high as when using a less popular programming language Data Preprocessing, Analysis & Visualization Machine Learning algorithms don't work so well with processing raw data. Before we can feed such data to an ML algorithm, we must preprocess it. We must apply some transformations on it. With data preprocessing, we convert raw data into a clean data set.

To perform data this, there are 7 techniques -

- 1. Rescaling Data -For data with attributes of varying scales, we can rescale attributes to possess the same scale. We rescale attributes into the range 0 to 1 and call it normalization. We use the Min Max Scaler class from scikit-learn. This gives us values between 0 and 1.
- 2. Standardizing Data -With standardizing, we can take attributes with a Gaussian distribution and different means and standard deviations and transform them into a standard Gaussian distribution with a mean of 0 and a standard deviation
- 3. Normalizing Data -In this task, we rescale each observation to a length of 1 (a unit norm). For this, we use the Normalizer class.
- 4. Binarizing Data -Using a binary threshold, it is possible to transform our data by marking the values above it 1 and those equal to or below it, 0. For this purpose, we use the Binarizer class.
- 5. Mean Removal-We can remove the mean from each feature to center it on zero.
- 6. One Hot Encoding -When dealing with few and scattered numerical values, we may not need to store these. Then, we can perform One Hot Encoding. For k distinct values, we can transform the feature into a k-dimensional vector with one value of 1 and 0 as the rest values.
- 7. Label Encoding -Some labels can be words or numbers. Usually, training data is labelled with words to make it readable. Label encoding converts word labels into numbers to let algorithms work on them

Machine Learning Algorithms:

There are many types of Machine Learning Algorithms specific to different use cases. As we work with datasets, a machine learning algorithm works in two stages. We usually split the data around 20%-80% between testing and training stages. Under supervised learning, we split a dataset into a training data and test data in Python ML. Followings are the Algorithms of Python Machine Learning -

- **1. Linear Regression-**Linear regression is one of the supervised Machine learning algorithms in Python that observes continuous features and predicts an outcome. Depending on whether it runs on a single variable or on many features, we can call it simple linear regression or multiple linear regression. This is one of the most popular Python ML algorithms and often under-appreciated. It assigns optimal weights to variables to create a line ax+b to predict the output. We often use linear regression to estimate real values like a number of calls and costs of houses based on continuous variables. The regression line is the best line that fits Y=a*X+b to denote a relationship between independent and dependent variables.
- **2. Logistic Regression** -Logistic regression is a supervised classification is unique Machine Learning algorithms in Python that find sits use in estimating discrete values like 0/1, yes/no, and true/false. This is based on a given set of independent variables. We use a logistic function to predict the probability of an event and this gives us an output between 0 and 1. Although it says 'regression', this is actually a classification algorithm. Logistic

regression fits data into a logit function and is also called logit regression.

- **3. Decision Tree -**A decision tree falls under supervised Machine Learning Algorithms in Python and comes of use for both classification and regression- although mostly for classification. This model takes an instance, traverses the tree, and compares important features with a determined conditional statement. Whether it descends to the left child branch or the right depends on the result. Usually, more important features are closer to the root. Decision Tree, a Machine Learning algorithm in Python can work on both categorical and continuous dependent variables. Here, we split a population into two or more homogeneous sets. Tree models where the target variable can take a discrete set of values are called classification trees; in these tree structures, leave represent class labels and branches represent conjunctions of features that lead to those class labels. Decision trees where the target variable can take continuous values (typically real numbers) are called regression trees.
- **4. Support Vector Machine (SVM)-**SVM is a supervised classification is one of the most important Machines Learning algorithms in Python, that plots a line that divides different categories of your data. In this ML algorithm, we calculate the vector to optimize the line. This is to ensure that the closest point in each group lies farthest from each other. While you will almost always find this to be a linear vector, it can be other than that. An SVM model is are presentation of the examples as points in space, mapped so that the examples of the separate categories are divided by a clear gap that is as wide as possible. In addition to performing linear classification, SVMs can efficiently perform a non-linear classification using what is called the kernel trick, implicitly mapping their inputs into high-dimensional feature spaces. When data are unlabeled, supervised learning is not possible, and an unsupervised learning approach is required, which attempts to find natural clustering of the data to groups, and then map new data to these formed groups.
- **5. Naïve Bayes Algorithm -** Naive Bayes is a classification method which is based on Bayes' theorem. This assumes independence between predictors. A Naive Bayes classifier will assume that a feature in a class is unrelated to any other. Consider a fruit. This is an apple if it is round, red, and 2.5 inches in diameter. A Naive Bayes classifier will say these characteristics independently contribute to the probability of the fruit being an apple. This is even if features depend on each other. For very large data sets, it is easy to build a Naive Bayesian model. Not only is this model very simple, it performs better than many highly sophisticated classification methods. Naïve Bayes classifiers are highly scalable, requiring a number of parameters linear in the number of variables (features/predictors) in a learning problem. Maximum-likelihood training can be done by evaluating a closed-form expression, which takes linear time, rather than by expensive iterative approximation as used for many other types of classifiers.
- **6. k NN Algorithm** -This is a Python Machine Learning algorithm for classification and regression- mostly for classification. This is a supervised learning algorithm that considers different centurions and uses a usually Euclidean function to compare distance. Then, it analyzes the results and classifies each point to the group to optimize it to place with all closest points to it. It classifies new cases using a majority vote of k of its neighbors. The case it assigns to a class is the one most common among its K nearest neighbors. For this, it uses a distance function. k-NN is a type of instance-based learning, or lazy learning, where the function is only approximated locally and all computation is deferred until classification.

k-NN is a special case of a variable- bandwidth, kernel density "balloon" estimator with a uniform kernel.

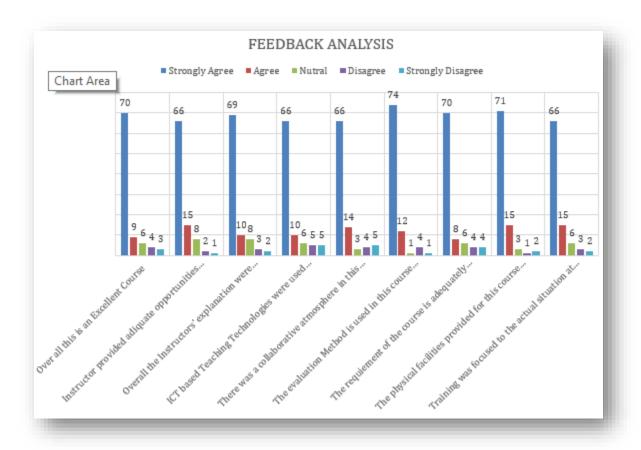
7. K-Means Algorithm -k-Means is an unsupervised algorithm that solves the problem of clustering. It classifies data using a number of clusters. The data points inside a class are homogeneous and heterogeneous to peer groups. k-means clustering is a method of vector quantization, originally from signal processing, that is popular for cluster analysis in data mining. k -means clustering aims to partition n observations into k-clusters in which each observation belongs to the cluster with the nearest mean, serving as a prototype of the cluster.

k-means clustering is rather easy to apply to even large data sets, particularly when using heuristics such as Lloyd's algorithm. It often is used as a preprocessing step for other algorithms, for example to find a starting configuration. The problem is computationally difficult(NP-hard). k-means originates from signal processing, and still finds use in this domain. In cluster analysis, the k-means algorithm can be used to partition the input data set into k partitions (clusters).

k-means clustering has been used as a feature learning (or dictionary learning) step, in either(semi-)supervised learning or unsupervised learning.

8.Random Forest - A random forest is an ensemble of decision trees. In order to classify every new object based on it s attributes, trees vote for class- each tree provides a classification. The classification with the most votes win sin the forest. Random forests or random decision forests are an ensemble learning method for classification, regression and other tasks that operates by constructing a multitude of decision trees at training time and outputting the class that is the mode of the classes (classification) or mean prediction (regression) of the individual trees.

Feedback Analysis:



SN	ROLL NO	NAME	Remarks
1	11900116005	VAIBHAV KAMANI	Successfully Completed
2	11900116006	TANMAY MISHRA	Successfully Completed

3	11900116007	SWATI SUMAN	Successfully Completed
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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERINGIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: 18th January 2018 to 28th January 2018

Venue: SIT, OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: **95**

Students Completed Successfully: 95

Pass Out Year: 2019

Feedback Analysis: Attached

Student List: Attached

Introduction

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. In the Training provides a quick introduction to Big Data, Map Reduce algorithm, and Hadoop Distributed File System.

Training Objective:

- Upon completion of this course, participants will be able to:
- Understand fundamentals of Concepts in Bigdata and hadoop etc
- Understand fundamentals of Hadoop etc.
- Be able to use the HDFS file system, debug and run simple Java programs for hdfs.
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

What is Big Data?

Big data means really a big data, it is a collection of large datasets that cannot be processed using traditional computing techniques. Big data is not merely a data, rather it has become a complete subject, which involves various tools, techniques and frameworks.

Advantages of Hadoop:

- Hadoop framework allows the user to quickly write and test distributed systems. It is efficient, and it automatic distributes the data and work across the machines and in turn, utilizes the underlying parallelism of the CPU cores.
- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

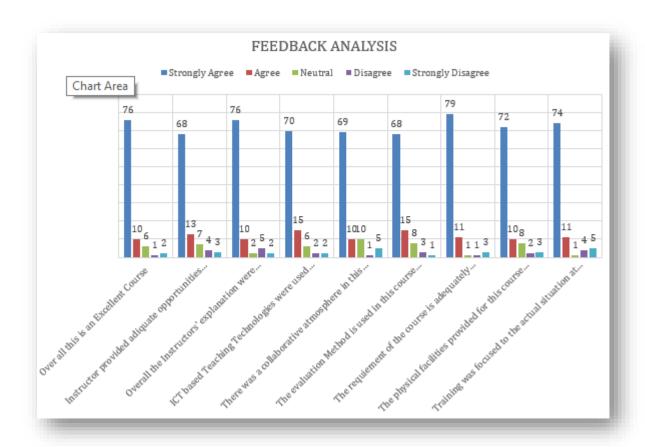
Training Methodology:

- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to java its application in industries in different areas.
- Students had done many data analysis algorithm by themselves during the trainings.
- During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned framework of Hadoop.



SN	ROLLNO	NAME	Remarks
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2	11900115002	ABHISHEK KUMAR GUPTA	Successfully Completed
3	11900115003	ABINASH KUMAR MAHATO	Successfully Completed
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57	11900115058	RAJIB KUMAR SINGH	Successfully Completed
58	11900115059	RAJIV CHOWDHURY	Successfully Completed
59	11900115060	RITWIK MONDAL	Successfully Completed
60	11900115061	ROHINI KUMARI	Successfully Completed
61	11900115062	RUDRANIL MAITRA	Successfully Completed
62	11900115063	SANA FARHIN	Successfully Completed
63	11900115064	SANDEEP PRASAD JAISWAL	Successfully Completed
64	11900115065	SANGITA DUTTA	Successfully Completed
65	11900115066	SANTANIL BASAK	Successfully Completed
66	11900115067	SANTARPAN SINHA	Successfully Completed
67	11900115068	SAYON BATABYAL	Successfully Completed
68	11900115069	SHANTAM KUMAR	Successfully Completed
69	11900115070	SHEETAL CHOUHAN	Successfully Completed
70	11900115071	SHIKHA SRIVASTAV	Successfully Completed
71	11900115073	SHREYASI PAUL	Successfully Completed
72	11900115074	SHRUTI KIRTI	Successfully Completed
73	11900115075	SHUBHAM DEBNATH	Successfully Completed
74	11900115076	SHUBHAM DEY	Successfully Completed
75	11900115078	SHYAMSUNDAR GUPTA	Successfully Completed
76	11900115079	SK MD TOUFIKUDDIN	Successfully Completed
77	11900115080	SONAKSHI BHATTACHARJEE	Successfully Completed
78	11900115081	SONI KUMARI SAHA	Successfully Completed
79	11900115082	SOUNAK DAS	Successfully Completed
80	11900115083	SOURAV GHOSH	Successfully Completed
81	11900115084	SUBHAJIT DAS	Successfully Completed
82	11900115085	SUBHAM DASTIDAR	Successfully Completed
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84	11900115087	SUCHISMITA NAG	Successfully Completed
85	11900115088	SUDARSHAN BOSE	Successfully Completed
86	11900115089	SULAGNA SARKAR	Successfully Completed
87	11900115090	SUSHIL KUMAR GUPTA	Successfully Completed
88	11900115091	SUSREE BANERJEE	Successfully Completed
89	11900115092	SYED MOHAMMED HASSAN AKIF	Successfully Completed
90	11900115093	TANMAY KUMAR	Successfully Completed

91	11900115094	VIPUL KALYANI	Successfully Completed
92	11900116001	TRIBID KUNDU	Successfully Completed
93	11900116002	SNEHASISH GHOSH	Successfully Completed
94	11900116003	SANJAY KUMAR PRASAD	Successfully Completed
95	11900116004	RAHUL DASGUPTA	Successfully Completed

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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERINGIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: 16th July 2017 to 17th July 2018

Venue: SIT, OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 87

Students Completed Successfully: 87

Pass Out Year: 2018

Feedback Analysis: **Attached**

Student List: Attached

Introduction

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. In the Training provides a quick introduction to Big Data, Map Reduce algorithm, and Hadoop Distributed File System.

Training Objective:

- Upon completion of this course, participants will be able to:
- Understand fundamentals of Concepts in Bigdata and hadoop etc
- Understand fundamentals of Hadoop etc.
- Be able to use the HDFS file system, debug and run simple Java programs for hdfs.
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

What is Big Data?

Big data means really a big data, it is a collection of large datasets that cannot be processed using traditional computing techniques. Big data is not merely a data, rather it has become a complete subject, which involves various tools, techniques and frameworks.

Advantages of Hadoop:

- Hadoop framework allows the user to quickly write and test distributed systems. It is efficient, and it automatic distributes the data and work across the machines and in turn, utilizes the underlying parallelism of the CPU cores.
- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

Training Methodology:

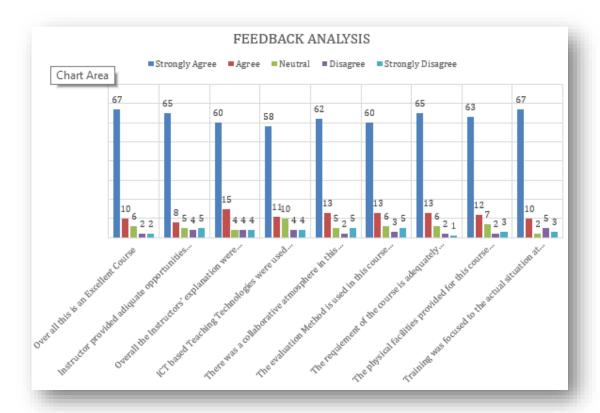
- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to java its application in industries in different areas.
- Students had done many data analysis algorithm by themselves during the trainings.
- During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students' end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned framework of Hadoop.

Feedback analysis for the training:



Student List:

SN	ROLL NO.	NAME Remarks	
1	11900113048	RATNADEEP BHATTACHARYYA Successfully Completed	
2	11900114001	ABHIGYAN KUMAR	Successfully Completed
3	11900114002	ABHILASH KUMAR DAS	Successfully Completed
4	11900114003	ABHIMANNYU SINGH	Successfully Completed
5	11900114004	AGNIV GHOSH	Successfully Completed
6	11900114005	AJAY KUMAR	Successfully Completed
7	11900114006	AMAN PRASAD	Successfully Completed
8	11900114007	AMRITA	Successfully Completed
9	11900114008	ANANYA	Successfully Completed
10	11900114009	ANANYA DAS	Successfully Completed
11	11900114010	ANANYA DASGUPTA	Successfully Completed
12	11900114011	ANIRUDDHA ROY	Successfully Completed
13	11900114012	ANKAN MITRA	Successfully Completed
14	11900114013	ARGHA DEEP SINHA	Successfully Completed
15	11900114014	ARNAB DEY SARKAR	Successfully Completed
16	11900114015	BABAI MAHAMMAD	Successfully Completed
17	11900114016	BHASWATI CHAKRABORTY	Successfully Completed
18	11900114017	CHANCHAL KUMAR	Successfully Completed
19	11900114018	DEBARATI DUTTA Successfully Complet	
20	11900114019	DEEP SHIKHA	Successfully Completed
21	11900114020	DEEPAK KUMAR Successfully Completed	
22	11900114021	EHTESHAM AHMED	Successfully Completed
23	11900114022	GARGI SAU	Successfully Completed
24	11900114024	IVY HALDAR	Successfully Completed
25	11900114025	JAVED AKHTAR ANSARI	Successfully Completed
26	11900114026	JOYRAJ BISWAS	Successfully Completed
27	11900114027	JUHIBA DUTTA	Successfully Completed
28	11900114028	KARUNIK DAS	Successfully Completed
29	11900114029	KAUSHIK DUTTA	Successfully Completed
30	11900114030	MANISH MISHRA	Successfully Completed
31	11900114031	MAYANK MISHRA	Successfully Completed
32	11900114032	MD MUSTAF HUSSAIN	Successfully Completed
33	11900114033	MD ZAFAR HUSSAIN	Successfully Completed
34	11900114034	MEGHA AGARWAL	Successfully Completed
35	11900114035	MISBAHUL HUDA	Successfully Completed
36	11900114036	MRIGANKA ROY	Successfully Completed
37	11900114037	MRIGANKA SHEKHAR PAUL	Successfully Completed
38	11900114038	OLYVIA GHOSH	Successfully Completed
39	11900114039	PAYEL SARKAR	Successfully Completed
40	11900114040	PINTU KUSHWAHA	Successfully Completed

41	11900114041	PRAJAK CHAKRABORTY	Successfully Completed
42	11900114042	PRAKASH CHATTERJEE	Successfully Completed
43	11900114043	PRATIVA SHARMA	Successfully Completed
44	11900114044	PRITAM SINHA	Successfully Completed
45	11900114046	PURBITA BISWAS	Successfully Completed
46	11900114047	RAHUL RAJ	Successfully Completed
47	11900114048	RAJA NAND SHARMA	Successfully Completed
48	11900114049	RAKESH KUMAR	Successfully Completed
49	11900114050	RISAB BISWAS	Successfully Completed
50	11900114051	RISHITA CHOWDHURY	Successfully Completed
51	11900114052	RIYA MITRA	Successfully Completed
52	11900114053	RUPAM MITRA	Successfully Completed
53	11900114054	SACHIN KUMAR SAHA	Successfully Completed
54	11900114055	SAGAR BHATTARAI	Successfully Completed
55	11900114056	SAGARIKA MITRA	Successfully Completed
56	11900114057	SAHITYA KAUSHIK	Successfully Completed
57	11900114058	SAMIK ANWAR	Successfully Completed
58	11900114059	SAMRAT BHATTACHARJEE	Successfully Completed
59	11900114060	SANDIPAN CHAKRABORTY	Successfully Completed
60	11900114061	SANGAM GURUNG	Successfully Completed
61	11900114062	SANTANU RAKSHIT	Successfully Completed
62	11900114063	SAPTARSHI GHOSH	Successfully Completed
63	11900114064	SAYAN CHAKRABORTY	Successfully Completed
64	11900114065	SHALINI PRADHAN	Successfully Completed
65	11900114066	SHALINI ROY CHOWDHURY	Successfully Completed
66	11900114067	SHASHI KANT PATEL	Successfully Completed
67	11900114068	SHIRSANA GHATAK	Successfully Completed
68	11900114069	SNEHA PARIJAAT	Successfully Completed
69	11900114070	SOHAM SARKAR	Successfully Completed
70	11900114071	SOURAVENDU NANDY	Successfully Completed
71	11900114072	SOUVIK BISWAS	Successfully Completed
72	11900114073	SRIJA GHOSH	Successfully Completed
73	11900114074	SUBHAM GUHA	Successfully Completed
74	11900114075	SUBHOJIT KUNDU	Successfully Completed
75	11900114076	SUDIPTA SAHA	Successfully Completed
76	11900114077	SURAJ SHARMA	Successfully Completed
77	11900114078	SURAJIT KUMAR DAS	Successfully Completed
78	11900114079	SWARNAVA MUKHERJEE	Successfully Completed
79	11900114080	SWEETY	Successfully Completed
80	11900114081	UJJAL DAS	Successfully Completed
81	11900114082	VINITA KUMARI	Successfully Completed
82	11900114086	ANIRBAN HALDAR	Successfully Completed
83	11900115095	ADRIJA PAUL	Successfully Completed
84	11900115096	BINDHYA MANGAR	Successfully Completed
85	11900115097	POOJA UPADHYAY	Successfully Completed

86	11900115098	RAJAT MUKHIA	Successfully Completed
87	11900115099	SHRADHANJALI PRADHAN	Successfully Completed



SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Industrial Training Report on Advanced JAVA

Training Details:

Training on Big Data / Hadoop

Resource Organization: NSIC

Training Date: 1st August 2016 to 12th August 2016

Venue: SIT, Programming Lab I/SIT, Programming Lab II/OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 70

Students Completed Successfully: 70

Pass Out Year: 2017

Feedback Analysis: Attached

Student List: Attached

Introduction:

Apart from University requirement, Java is also a pre-requisite for learning latest technologies like Android and Big Data. In order to prepare and make students ready for industry Computer science department has carved out a course that specifically aligns with industry requirements and conducted by industry experts.

In this training session students learned basic object oriented concepts such as inheritance, encapsulation, and abstraction. They learn how to create and use simple Java classes containing arrays, loops, and conditional constructs. They also learn to use and manipulate object references, and to write simple error handling code. They also learned some advance topic like JDBC connectivity, JSP, Servlates.

Training Objective:

Upon completion of this course, participants will be able to:

- Understand fundamentals of Java programming such as variables, conditional and iterative execution, methods, etc
- Understand fundamentals of object-oriented programming using Java, including defining classes, invoking methods, using class libraries, etc.
- Be able to use the Java SDK environment to create, debug and run simple Java programs
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

Training Methodology:

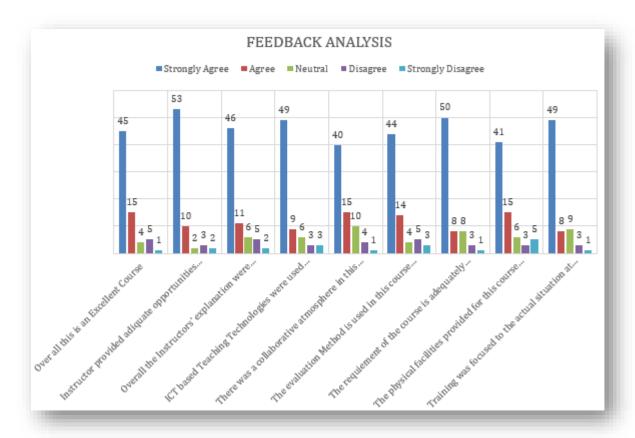
- Online on approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to, OOPs programming and java its application in industries in different areas with the students.
- Students had done many programming by themselves during the trainings.
- ❖ During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students end, the entire session was really fruitful
- and enjoyable and the students have learned many things about Java

Feedback analysis for the training:



Student List:

1 11900113001 ABHISHEK DEY Successfully Completed 2 11900113002 ADITYA SAHA Successfully Completed 3 11900113003 AKANKSHA KUMARI Successfully Completed 4 11900113005 AMIT KUMAR Successfully Completed 5 11900113007 AMRITA KUNDU Successfully Completed 6 11900113008 ANGSHUMAN HALDER Successfully Completed 8 11900113009 ANIRBAN DUTTA Successfully Completed 9 11900113011 ANKITA GUPTA Successfully Completed 10 11900113013 AYUSH AMAN Successfully Completed 11 11900113014 BASANT RAJ Successfully Completed 12 11900113016 BHAWESH PRASAD Successfully Completed 13 11900113018 BISWAJIT DOLUI Successfully Completed 14 11900113019 CHIRANIJIS MUKHERJEE Successfully Completed 15 11900113020 CARSH CHANDRA SAHA Successfully Completed 18 11900113021 JYOTI SINHA Su	SN	ROLL NO.	NAME	Remarks		
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45 11900113051 ROHIT KUMAR JAISWAL Successfully Completed 46 11900113052 SADAF FARHEEN Successfully Completed 47 11900113055 SHISHU KUMAR PAL Successfully Completed 48 11900113056 SHOMIK PAUL Successfully Completed 49 11900113057 SHRAMANA ROY Successfully Completed 50 11900113058 SHRUTI Successfully Completed 51 11900113059 SHUBHAM SAGAR Successfully Completed 52 11900113060 SHUBHAM VERMA Successfully Completed 53 11900113061 SON JUHI Successfully Completed 54 11900113062 SOUVIK ROY Successfully Completed
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55 11900113063 SRADDHA CHAKRABORTY Successfully Completed
56 11900113064 SRISTY AGARWAL Successfully Completed
57 11900113065 SRITAMA GUPTA Successfully Completed
58 11900113066 SUBHAM PANDEY Successfully Completed
59 11900113067 SUBHANJANA SARKAR Successfully Completed
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61 11900113069 SUMAN KUMAR Successfully Completed
62 11900113070 SUMITA DEY Successfully Completed
63 11900113071 SUNNY KUMAR Successfully Completed
64 11900113072 TORSHA SARKAR Successfully Completed
65 11900113073 VIKASH CHAND SINGH Successfully Completed
66 11900113074 VISHAL GAURAV Successfully Completed
67 11900113075 VIVEK KUMAR SINGH Successfully Completed
68 11900114083 ANJU KUMARI PRASAD Successfully Completed
69 11900114084 SEVIKA GUPTA Successfully Completed
70 11900114085 SUDESHNA GHOSH Successfully Completed



West Bengal State Electricity Distribution Company Limited

(A Govt. of W.B. Enterprise) Human Resource Development Department Bidyut Bhavan, 5th Floor: D-Block: Bidhannagar: Kolkata-700 091 Phone: +91 33 2358-2192/23197488 (Sec.): FAX: +91-33-2359-0176

E-mail: hrdd.wbsedcl@gmail.com

Office Order NO: GM/HRD/VAC/WINTER/2019-20/08

Dated: 09 .12.2019

The following students are hereby directed to report to the following Officers for undergoing Training as per letter issued by the Authorities of the respective Institutes/Colleges.

SI.	A CONTRACTOR OF THE CONTRACTOR	Twelit-t-	Disabelle	Period of	Training	Officer to whom
No	Name of the Student	Institute/ College	Discipline/ Department	Date of comm- encement	Date of completion	Report
	AMARDYUTI BASU	Techno India	NEWS COMPANY	transmit in		DIVISIONAL MANAGER
	ABHIK ROY		Electrical	10.01.2020	annical de la Car	BIDHANNAGAR—I
3.	MOHAN DAS	University,	Engineering	10.01.2020	24.01.2020.	DIVISION, WBSEDCL CONTACT:
ļ.	VIKAS KUMAR	W.B.	(3rd Year)	(10:00 AM)		7449304441- AM(HR&A) 033 2367- 0033
5.	ABHISHEK DAS	Taskas Tadia	Flashvisal			DIVISIONAL MANAGER SERAMPORE DIVISION, WBSEDCL CONTACT: 7449303451-AM(HR&A)
7.	POUSALI SARKAR PARIJIT CHOUDHURY	Techno India University,	Electrical Engineering (3rd Year)	27.12.2019 (10:00 AM)	10.01.2020.	
8.	SUPRIYO SET	W.B.				
9.	PRATOSH KUMAR JHA		,			
10.	MAYUKH SAHA					DIVISIONAL MANAGER,
11.	SREEJIT GUHA THAKURTA	Techno Main	Electrical	03.01.2020 (10:00 AM)	100 PM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEW TOWN DIVISION,
12.	ANIRBAN MAJI	Polytechnic,	Engineering		17.01.2020	WBSEDCL CONTACT:
13.	SUDIPTA SAU	Salt Lake	(3rd Year)			
14.	ROHAN KR SINGH	-				9434464593- DM
15.	SOUMODEEP PAKHIRA	Netaji			North Control	DIVISIONAL MANAGER,
16. 17.	TANMOY SENGUPTA GOURAB SANTRA	Subhash	Electrical	06.01.2020	20.01.2020.	NEW TOWN DIVISION, WBSEDCL CONTACT:
18.	ARUNADITYA KUNDU	Engineering	Engineering (3rd Year)	(10:00 AM)	20.01.2020.	
19.	ABHIJIT POLLEY	College	(Sid real)			9434464593- DM
20.	SAKET SUMAN					DIVISIONAL MANAGER
21.	RAUNEET SINGH	Institute of	Electrical		20.01.2020.	BIDHANNAGAR—I DIVISION, WBSEDCL CONTACT: 7449304441- AM(HR&A)
22.	ANKIT SINGH	Engineering	Engineering	06.01.2020		
23.	VIVEK KUMAR VERMA	& Management	(3rd Year)	(10:00 AM)		
24.	NIDHI SINGH					
25.	MONI KUMARI		EEE (3dr Year)			033 2367- 0033
26.	ARITRA BISWAS				16.01.2020	DIVISIONAL MANAGER, NEW TOWN DIVISION, WBSEDCL CONTACT: 9434464593- DM
27. 28.	AVIRUP MUKHERJEE PARTHA PRATIM BHADRA	Institute of	Electrical Engineering (3rd Year)	02.01.2020 (10:00 AM)		
29.	ABHIK DEWASI	Engineering				
30.	SARTHAK BERA	&				
31.	SAMBHUNATH MANDAL	Management				
32.	SAYAN DEBNATH					
33.	VIKASH KUMAR				17.01.2020	DIVISIONAL MANAGER,
34.	VED PRAKASH	Institute of	Electrical			BIDHANNAGAR-II
35.	UMESH KUMAR DUBEY	Engineering	Engineering	03.01.2020 (10:00 AM)		DIVISION, WBSEDCL PHONE NO: 7449304491- AM (HR&A
36. 37.	AYAN KUMAR SEN DIPANJAN MOJUMDER	& Management				
38.	ANSHU KUMAR RAKSHIT	Planagement				033 2576-7258
39.	VINEET KUMAR		Electrical Engineering (3rd Year)	23.12.2019 (10:00 AM)	06.01.2020.	DIVISIONAL MANAGER HOWRAH-I DIVISION, WBSEDCL CONTACT: 7449304871-AM(HR&A) 033 2637 6469
40.	SABYASACHI KUNDU	Heritage				
41.	RITESH KUMAR	Institute of Technology				
42.	RUHIT KUMAR	recimology	(Sid real)			
43.	RITAM TALUKDER	Heritage Institute of Technology	Electrical Engineering (3rd Year)	26.12.2019 (10:00 AM)	09.01.2020.	DIVISIONAL MANAGER BEHALA DIVISION, WBSEDCL CONTACT: 7449304091- AM(HR&A) 033 2480-8367
44.	AMRITA DAS	B. P. Poddar Institute of Management and Technology	Electrical Engineering (3rd Year)	26.12.2019 (10:00 AM)	09.01.2020.	DIVISIONAL MANAGER NAIHATI DIVISION, WBSEDC CONTACT: 7449304741 AM(HR&A)
45.	TAMAGHNA CHATTERJEE					
46.	KANSTAV KUMAR PRASAD				09.01.2020.	DIVISIONAL MANAGER SILIGURI TOWN DIVISION, WBSEDCL
47.	SURAJ KUMAR MAHARAJ	Siliguri	Electrical Engineering (3rd Year)	26.12.2019 (10:00 AM)		
48.	SUBIR GHOSH	Institute of				
49.	SNEHA PAUL	Technology				CONTACT:
50. 51.	BISWAJIT KUMAR LASKAR ARGHYA DEEP SAHA	1				7449301122- AM (HR&A)
52.	RAHUL DUTTA	Siliguri Institute of Technology	Electrical Engineering (3rd Year)	26.12.2019 (10:00 AM)	09.01.2020.	DIVISIONAL MANAGER BANKURA DIVISION, WBSEDCL CONTACT: 7449305515- AM (HR&A) 03242 250272



West Bengal State Electricity Distribution Company Limited

(A Govt. of W.B. Enterprise) Human Resource Development Department Bidyut Bhavan, 5th Floor: D-Block: Bidhannagar: Kolkata-700 091 Phone: +91 33 2358-2192/23197488 [Sec.]: FAX: +91-33-2359-0176 E-mail: hrdd.wbsedcl@qmail.com

SI.	10 300	Institute/	Discipline/	Period of	Training	Officer to whom
No	Name of the Student	College	Department	Date of comm- encement	Date of completion	Report
53.	OJAS PAREEK	Indian Institute of Engineering Science and	Electrical Engineering	16.12.2019 (10.00 a.m)	30.12.2019	PROJECT MANAGER JALDHAKA HYDEL PROJECT, WBSEDCL
54.	MAYANK ORAON	Technology, Shibpur	(3rd Year)	(20.00 a.m)	50363	CONTACT: 9434006330- PM
55.	SUBHRAJIT DEY	Kalinga Institute of Industrial	Electrical Engineering (3rd Year)	16.12.2019 (10.00 a.m)	30.12.2019	DIVISIONAL MANAGER BARASAT DIVISION, WBSEDCL CONTACT:
56.	SNEHA ROY	Technology	(3 rd Year)	(10.00 a.m)	120040181	7449304641- AM (HR&A) 033 2552-3661
57.	ANTARA PAL		Electrical Engineering (3rd Year)	23.12.2019 (10.00 a.m)		PROJECT MANAGER TEESTA CANAL FALL HYDEL PROJECT, WBSEDCL CONTACT:
58.	ANIRUP DEY	Gurunanak				
59.	ANKIT PRASAD	Institute of Technology			06.01.2020	
60.	SUCHANDRA PAUL		(Sid redi)	ani ye sanya S	and the same	7449300631- PM
61.	SUBHARSHI ROY					
62.	SARNENDU SARKAR		Diploma in			ACE & PSIC,
63. 64.	SOUMIK MANDAL DEBANJAN CHATTERJEE	Gurunanak Institute of	Electrical	20.01.2020	27.01.2020	PURULIA PUMP STORAGE PROJECT, WBSEDCL
65.	SOUDIP MAJI	Technology	Engineering	(10:00 AM)	27.01.2020	CONTACT NO :
66.	BIKRAM DAS		(3rd Year)	The state of the s		8170043836 - HR&A
67.	SUDIP DAS					
68.	SUSOVAN MAL	Bengal				PROJECT MANAGER TEESTA CANAL FALL HYDEL PROJECT, WBSEDCL CONTACT:
69.	SUBHANKAR GIRI	Institute of Technology &		08.01.2020 (10:00 AM)	22.01.2020	
70.	PAYEL DAS	Management,				
71.	DIPTANUJ DAS	Santiniketan				7449300631- PM
72.	SUBHASISH DEY	Narula Institute of Technology	Electrical Engineering (4th Year)	20.12.2019 (10.00 a.m)	03.01.2020	DIVISIONAL MANAGER ALIPURDUAR DIVISION, WBSEDCL CONTACT: 7449301721- AM (HR&A) 03564-258600
73.	HIMANGSHU ROY		Electrical Engineering	23.12.2019 (10.00 a.m)	06.01.2020	DIVISIONAL MANAGER SOUTH MALDA DIVISION, WBSEDCL CONTACT: 7449302651- AM (HR&A) 03512-253591
74.	BANDHA ORAON	S. N. Bose				
75.	SANJU BALA	Government Polytechnic,				
76.	SOHAN DUTTA BANIK	Ratua, Malda	(3rd Year)			
77.	BIJOY SARKAR					
78.	PRITAM DAS		Electrical Engineering	26.12.2019 (10:00 AM)	09.01.2020.	DIVISIONAL MANAGER SOUTH MALDA DIVISION, WBSEDCL CONTACT: 7449302651- AM (HR&A) 03512-253591
79.	SM ASIF URZAMAM	S. N. Bose				
80.	ENJAMUL HOQUE	Government				
81.	PRALAY KARMAKAR	Polytechnic, Ratua, Malda	(3rd Year)			
82.	DIPAMKAR ROY	Ratua, Flaida				
83.	KRISHNENDU MAITY					DIVISIONAL MANAGER
84.	JOYDEEP GHOSH	Regent	Electrical	02.04.2020	16.01.2020	HABRA DIVISION, WBSEDC CONTACT:
85.	SHIVAM NATH	Education & Research	Engineering	02.01.2020 (10:00 AM)		
86.	ARIJIT PODDAR	Foundation	(3rd Year)	(10.00 AM)		7449304691- AM (HR&A)
87. 88.	NELOYKANTI SAHA DEBASISH BISWAS					03216-237110
89.	SOUMYA KANTI MONDAL	Regent	ducation & Engineering Research (3rd Year)	05.04.2020		DIVISIONAL MANAGER HABRA DIVISION, WBSEDC CONTACT:
90.	SANJU BISWAS	Education &		06.01.2020 (10:00 AM)	20.01.2020	
91.	PRIYANJAN KUMAR	Foundation				7449304691- AM (HR&A)
92. 93.	ARABINDA RAHA ENAYAT MOLLA		Charles Ma			03216-237110
94.	SUBHOJIT ADHIKARY	Regent	Electrical	08.01.2020 (10:00 AM)	22.01.2020	DIVISIONAL MANAGER HABRA DIVISION, WBSEDC CONTACT: 74493034691- AM (HR&A)
95.	SUJAY MONDAL	Education & Research	Engineering (3rd Year)			
96.	SAROJ KUMAR	Foundation				
97.	PRASENJIT MAITY					03216-237110
98. 99.	RITABRATA BAGCHI ANUPAM BISWAS	JIS School of	Diploma in Electrical Engineering (3rd Year)	27.12.2019 (10:00 AM)	10.01.2020.	DIVISIONAL MANAGER NAIHATI DIVISION, WBSEDCL CONTACT: 7449304741 AM(HR&A)
100		Polytechnic				



West Bengal State Electricity Distribution Company Limited

Human Resource Development Department

Bidyut Bhavan, 5th Floor: D-Block: Bidhannagar: Kolkata-700 091 Phone: +91 33 2358-2192/23197488 (Sec.): FAX : +91-33-2359-0176

E-mail: hrdd.wbsedcl@gmail.com

The trainees shall be released in the afternoon as per date mentioned above. West Bengal State Electricity Distribution Company Limited shall not take any responsibility whatsoever, in case of accident or any untoward incident during the training period. However, the Trainees shall not be allowed to enter our Sub-Station premises without safety equipments (a) Helmet (b) Safety shoes which will arrange by themselve. The trainees shall have to arrange for his/her own board & lodging if so required.

During training period no remuneration / stipend will be paid by WBSEDCL and the Training Certificate shall be issued only after receipt of daily attendance report from respective Site-in-Charge. **This Training is imparted by the WBSEDCL free of cost.** Any act of indiscipline or any non-attendance on the part of the training, the training shall be deemed as cancelled.

(S. De)
GM (HRD & TRG/PM)

Dated: 09.12.2019

MEMO NO: GM/HRD/VAC/WINTER/2019-20/ 08 (1-13)
Copy forwarded for information to:

L) Chief Engineer & Project manager, PPSP- HQ, WBSEDCL

2) ACE & PSIC, PPSP Site, / Jaldhaka Hydel Project / TCFHP, Divisional Manager: Bidhannagar-I / Serampore / New Town / Bidhannagar-II/Howrah-I/Behala/Naihati/Siliguri Town/Behala/Barasat/Alipurduar/South Malda / Habra / Naihati, Division WBSEDCL.

**The training report and Note Book in duplicate of the trainee duly signed by the controlling Officer may please be handedover to the trainees alongwith release order for record and issue of certificate to trainee. The trainees should be released positively as per date mentioned above.

- Academic Co-ordinator, Techno India University, W.B. Mobile: 9836544416, E-mail: placement.tiu@gmail.com
- 4) Co-Ordinator, Techno Main Polytechnic , Salt Lake
 Phone: 033 2357 2357-5683, E-Mai: tipolytechnic@gmail.com
- 5) Executive TP, Netaji Subhash Engineering College
 Phone: 033 2436 3333/1285, E-mail: nsec1998pc@gmail.com
- 6) Principal, Institute of Engineering & Management Phone: 033 2357 8302 E-mail: director@iemcal.com
- 7) HOD, EE, Heritage Institute of Technology
 Phone: 033 6627 0600/0614/0622, E-Mail: admin@heritageit.edu
- 8) HOD- EE, Siliguri Institute of Technology
 Phone: 0353 2778002, Email: sittechnoo@rediffmail.com
- 9) Principal & Head- EE. IIEST, Shibpur
- 10) TPO, Guru Nanak Institute of Technology Phone: 033 2523 3900, E-Mai: gnit_tnp@jisgroup.org
- **11)** TIC, Bengal Institute of Technology & Management, Santiniketan Phone: 03463 271354/271353, E-mail: tpcell_bitm@rediffmail.com
- **12) TPO,** Narula Institute of Technology

 Mobile: 9830211266, E-mail: narulatnp@jisgroup.org
- 13) TPO, S. N. Bose Government Polytechnic, Ratua, Malda E-mail: snbpoly@gmail.com
- **14) GM Corporate, Regent Education & Research Foundation** Mobile: 9007057333, E-mail: <u>placementrerf@gmail.com</u>
- 15) Asst. TPO, JIS School of Polytechnic
 Phone: 033 25025690, Email: sayantani.de@jisgroup.org

** Students (from SI. No. 1 to SI.No. 100) as mentioned prepages – for guidance.

** Students are directed to maintain a note book & prepare a Training Project Report in duplicate and get the note book signed by the Officer under whom he/she is placed for training at least once in a week. The Original Training Project Report duly signed by the Controlling officer and the original release order must be submitted at HRD &TRG Department at Vidyut Bhaban within two weeks of the completion of the training. The training certificate will be available at HRDD after two months from the date of submission of above documents & must be collected within three months of submission.

SE(E) / HRDD