NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

EXPERT TALK SERIES -EVEN SEM (2018-2019)

Subject: DATA ANALYTICS **Expert Name:** Mr. Sandeep Nagdewani

Audience: 6thA **Date:09-03-2019(10:00AM-1:10 PM)**

The department of Information Science and Engineering has conducted Expert talk on the topic **"**Data Analytics**"** for the 6thA semester students on 09thMARCH, 2019under the supervision of ISE Head of the department, Dr.Anandhi R J at ISE department class room 503. The expert speaker, Mr. Sandeep Nagdewani was invited to conduct the same.

Speaker is multi skilled professional with 5+ years of experiencein analytics area which majorly involves partnering with clients and generating insights from big data followed by conducting results using effective data visualization.

VARIOUS SESSIONS THROUGHT THE PROGRAM:

Expert talk on Data Analytics by Mr. Sandeep Nagdewani.

TOPICS COVERED:

- ✓ Introduction to Data analytics
- ✓ Data science vs big data vs data analytics
- ✓ Need for data analytics
- ✓ Types of data analytics
- ✓ Data mining.

➢ INTRODUCTION TO DATA ANALYTICS:

1. **Data Analytics:** Data Analytics the science of examining raw data with the purpose of drawing conclusions about that information.
2. Data Analytics involves applying an algorithmic or mechanical process to derive insights. For example, running through a number of data sets to look for meaningful correlations between each other.

3. It is used in a number of industries to allow the organizations and companies to make better decisions as well as verify and disprove existing theories or models.

- DATA SCIENCE VS BIG DATA VS DATA ANALYTICS

1. **Data Science:** Dealing with unstructured and structured data, Data Science is a field that comprises of everything that related to data cleansing, preparation, and analysis.

2. Data Science is the combination of statistics, mathematics, programming, problem-solving, capturing data in ingenious ways, the ability to look at things differently, and the activity of cleansing, preparing and aligning the data.

3. **Big Data:** Big Data refers to humongous volumes of data that cannot be processed effectively with the traditional applications that exist. The processing of Big Data begins with the raw data that isn't aggregated and is most often impossible to store in the memory of a single computer.

4. **Data Analytics:** Data Analytics the science of examining raw data with the purpose of drawing conclusions about that information.

- NEED FOR DATA ANALYTICS:

1. Analysis of business value Chain.
2. Industry knowledge
3. Data Analytics gives us analyzed data that helps us in seeing opportunities before the time that's another way of unlocking more options.

- TYPES OF DATA ANALYTICS:

1. **Prescriptive Analytics** – This is the type of analytics that talks about the analysis based on the rules and recommendations in order prescribe a certain analytical path for the organization.

2. **Predictive Analytics** – This type of analytics ensures that the path is predicted for the future course of action.

3. **Diagnostic Analytics** – this is about looking into the past and determining why a certain thing happened. This type of analytics usually revolves around working on a dashboard.

4. **Descriptive Analytics** – in this type of analytics we work based on the incoming data and the mining of this data we deploy analytics and come up with a description based on the data.

- DATA MINING:

1. Data mining is defined as a process used to extract usable data from a larger set of any raw data. It implies analyzing data patterns in large batches of data using one or more software.

2. An application of data mining, businesses can learn more about their customers and develop more effective strategies related to various business functions and in turn leverage resources in a more optimal and insightful manner.

3. Data mining involves effective data collection and warehousing as well as computer processing.

The outcome of this program to the students provided good knowledge about the Data analytics and data mining, importance and the requirement of data analytics to every business.

List of Participants

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