## Report of Webinar

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| **Title** | **Data Science for Beginners** |
| **Date of Event(s)** | **16/8/2021** |
| **Time** | **8:30 am to 9:30 am** |
| **Department / Association** | **Department of Computer Applications / Cyber Spirits** |
| **Venue** | **Online Mode** |
| **Number of Participants** | **85** |
| **Target Audience** | **VI sem BCA and VI sem BSc(MEC)** |
| **Activity Conducted By** | **Faculty of Computer Applications** |

**REPORT**

Data scientists are a new and rapidly growing breed of professionals who are in high demand today. This term was coined a few years ago by data leads to companies such as LinkedIn and Facebook. And today, there is a massive influx of data scientist nerds working across industries. This demand arose as a result of an unexpected need to find brains who could wrangle with data, aid in discovery, and ultimately empower organisations to make data-driven decisions. This was also the beginning of the digital transformation. A data scientist's role in organisations attempting to manipulate petabytes of data was to assist them in utilising this opportunity to find insights from this data pool. They will analyse, process, interpret, and store data using their computer science, statistics, and mathematical skills. A data scientist's scope combines the best social skills to discover trends, not just analytical skills.

Throughout this section, people will go over the fundamentals of data science and what it means to be a data scientist. There are a few key things to notice in this definition:

Data Science is the study of extracting insights from massive amounts of data using various scientific methods, algorithms, and processes. It aids in the discovery of hidden patterns in raw data. Because of the evolution of mathematical statistics, data analysis, and big data, the term Data Science has emerged.

Data Science is an interdisciplinary field that enables knowledge to be extracted from structured or unstructured data. Data science allows you to turn a business problem into a research project, then back into a practical solution.

**Statistics:** Statistics is the most important unit of Data Science fundamentals. It is the method or science of collecting and analysing large amounts of numerical data in order to gain useful insights.

**Visualization:** This technique allows you to access large amounts of data in easily understandable and digestible visuals.

**Machine Learning:** is the study and development of algorithms that learn to make predictions about unforeseen/future data.

**Deep Learning:** Deep Learning is a new machine learning research method in which the algorithm chooses the analysis model to use.

Finally, she said about open source tools and job roles in data science. Data Scientist

- Data Engineer
- Data Analyst
- Statistician
- Data Architect
- Data Admin
- Business Analyst
- Data/Analytics Manager

**Data Scientist:**

**Role:**

A Data Scientist is a professional who manages enormous amounts of data to come up with compelling business visions by using various tools, techniques, methodologies, algorithms, etc.

**Languages**:

R, SAS, Python, SQL, Hive, Matlab, Pig, Spark

**Data Engineer:**

**Role**:

The role of data engineer is of working with large amounts of data. He develops, constructs, tests, and maintains architectures like large scale processing system and databases.

**Languages**:

SQL, Hive, R, SAS, Matlab, Python, Java, Ruby, C + +, and Perl

**Data Analyst:**

**Role**:

A data analyst is responsible for mining vast amounts of data. He or she will look for relationships, patterns, trends in data. Later he or she will deliver compelling reporting and visualization for analyzing the data to take the most viable business decisions.

**Languages**:

R, Python, HTML, JS, C, C+ + , SQL

**Statistician:**

**Role**:

The statistician collects, analyses, understand qualitative and quantitative data by using statistical theories and methods.

**Languages**:

SQL, R, Matlab, Tableau, Python, Perl, Spark, and Hive

**Data Administrator:**

**Role**:

Data admin should ensure that the database is accessible to all relevant users. He also makes sure that it is performing correctly and is being kept safe from hacking.

**Languages**:

Ruby on Rails, SQL, Java, C#, and Python

**Business Analyst:**

**Role**:

This professional need to improves business processes. He/she as an intermediary between the business executive team and IT department.

**Languages**:

SQL, Tableau, Power BI and, Python

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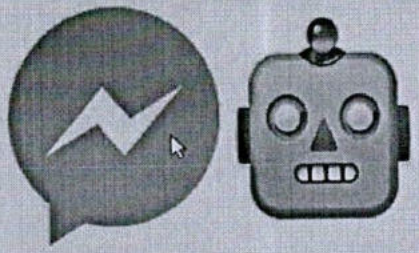
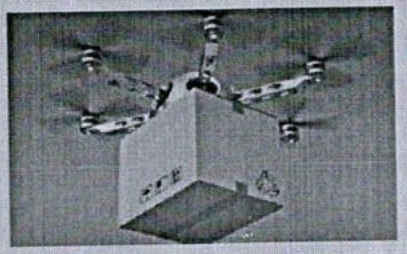
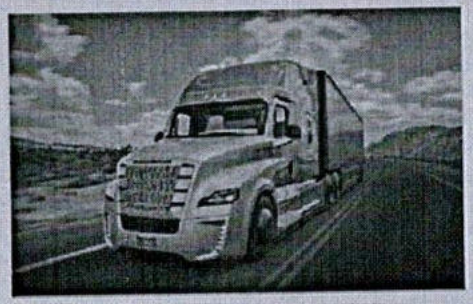
REKHA S is presenting

# Artificial Intelligence







facebook & Facial Recognition

Dr. NGPASC
COIMBATORE | INDIA

REKHA S

Lavanya.R

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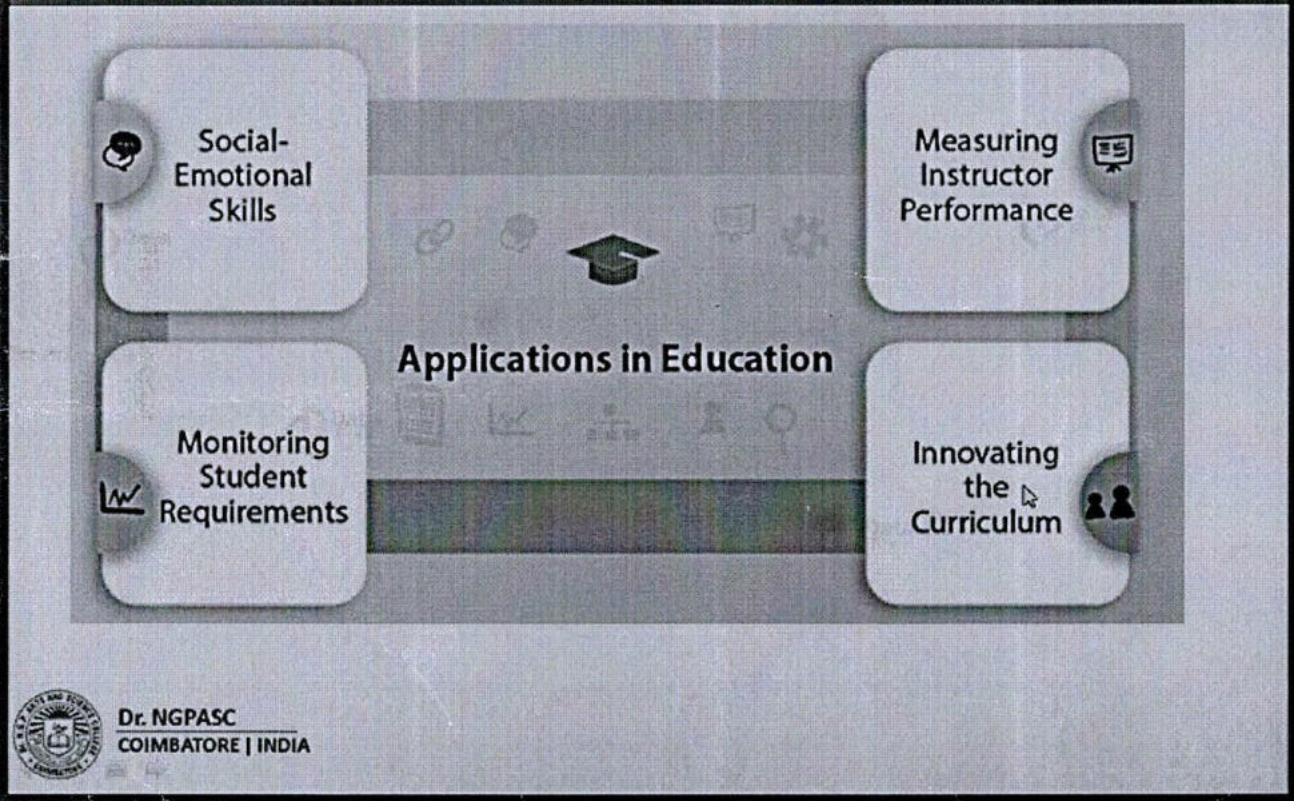
REKHA S is presenting

# Data Science in Education

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