



Param Poojya Dr. Babasaheb Ambedkar Smarak Samiti's  
Dr. Ambedkar College Deekshabhoomi, Nagpur

Webinar on

**“Data Science - Applications and Career Opportunities”**

Organized by

**Department of Statistics**

Date: 5<sup>th</sup> February, 2021

### **REPORT**

Webinar on **“Data Science, Applications and Career Opportunities”** was organized by Department of Statistics on 5<sup>th</sup> February 2021. The main objective of this online webinar was to give detailed information regarding inter-disciplinary field Data Science which uses scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data to students of Statistics of colleges in and around Nagpur city in these troubled times of crisis of COVID-19. This webinar was planned to impart knowledge about Applications of Data Science in different fields and Career Opportunities available to the students in this field.

The speaker for this webinar was Dr. Madhukar S. Kasture, Asso. Prof. & Head, Post graduate Department of Statistics, New Arts, Commerce and Science College, Ahmednagar. Webinar was hosted by Mrs. A.M. Badar, Organizing Secretary of the webinar and Asso. Prof. of Dept. Of Statistics in Dr. Ambedkar College, Nagpur.

In the beginning Mrs. A. M. Badar, Head of Dept. of Statistics presented a welcome address. Ms. Arya Telharkar, B.Sc. final year student introduced the speaker to the audience.

In the beginning Prof Kasture explained role of Data Science in analyzing large data of different characteristics of three species of Iris flower with a great accuracy of up to 99% which may be difficult for taxonomy person. Then he discussed study of customer churn in aviation of 900 data points and 5 features which results in loss of business of different airlines. Hence churning is one of the issues which is to be handled by data scientist of today.

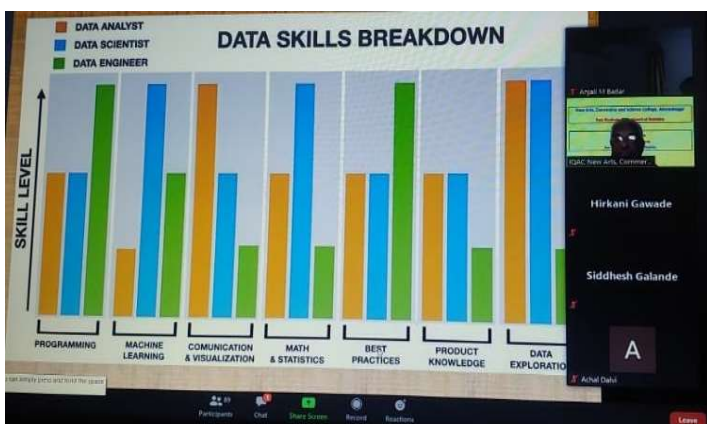
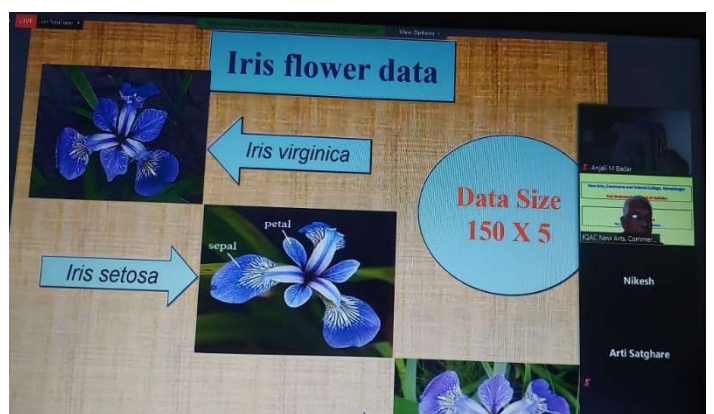
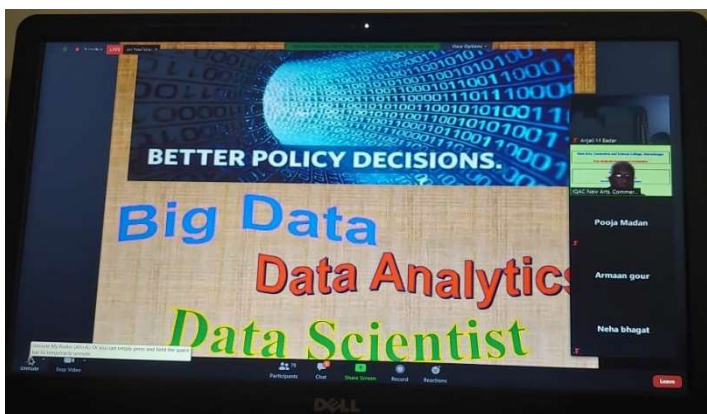
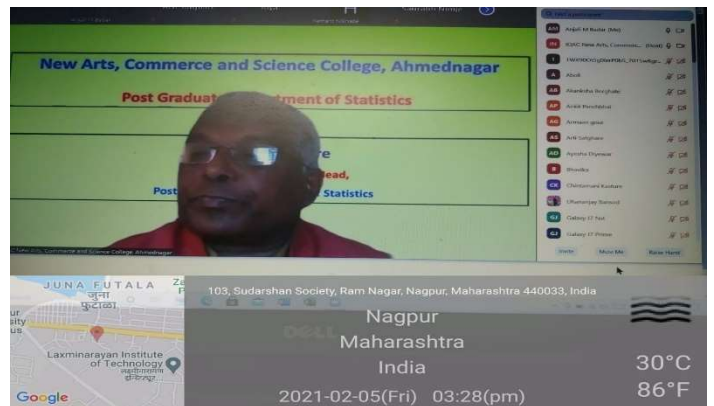
He gave information to the students regarding handling of mixed type voluminous data of 5042 movies of 100 years with 25 characteristics of each movie, Global supermarket data 51290 records each containing 25 characteristics, huge American time data of 130100 records of 23 features etc. and different data storage devices to store such huge data, processing of such data.

He informed the students that data analysis is around us since long from 1935. How different concepts of data analysis, different statistical methods like design of experiments, quality control, business analysis systems, exploratory data analysis, machine learning, business intelligence came into existence. He also explained how data is going to play a role of oil in economic activities for profitability. According to him data science is booming now a days because scope of data is extended to different types like numeric, logical, categorical, time, date, text, sound, image, video, maps etc.

He asked the students to treat data as elephant and yourself as blind person to extract information from data. He gave information regarding different ways of collecting data like GPS sensors, smart phone accelerator, Wi-fi signals, social networks, traction data from banking, insurance etc. and information about different start-ups using big data in the field of real estate, marketing, cybersecurity, energy, finance, HR recruiting, retail supply chain, health care, agriculture etc.

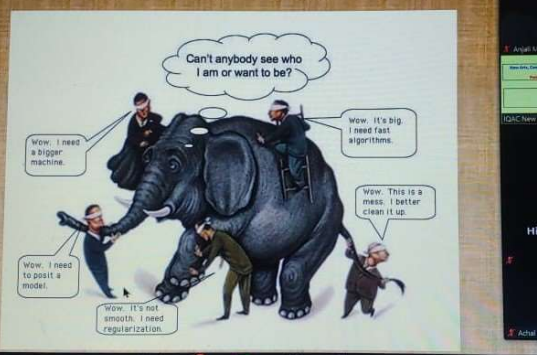
He gave information that four types of career opportunities are available in the field of data science which are as data manager, data analyst, data scientist, data engineer in data science industry. The major types of data scientists are Research data scientists, Marketing data scientists, Operational data scientists, Quantitative data scientists. The background, qualities and skills required for data scientists are Mathematical and Statistical background, programming skills, communication skills etc. It means both hard and soft skills are required. According to him data science tool-kit consists of different languages like Python, R, SQL, JavaScript, NodeJS, different libraries, data engineering, visualization etc.

Lastly question-answer session was held in which many students asked their queries which were answered gladly by Prof. Kasture. A fruitful interaction session was held among guest speaker and students. At the end Ms. Pooja Madan briefly summarized the lecture on Data Science and gave a formal vote of thanks. Around 250 delegates including students and teachers attended this webinar online.





# How do we view BIG data?



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Data Size 51290 X 25

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Hirkani Gawade

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