DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

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FACULTY OF COMPUTING SCIENCES AND ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

The Department of Computer Science and Applications is planned to organize the webinar on Data Science during this COVID'19 lockdown period to the students with an objective of enriching the knowledge and skills for their future.

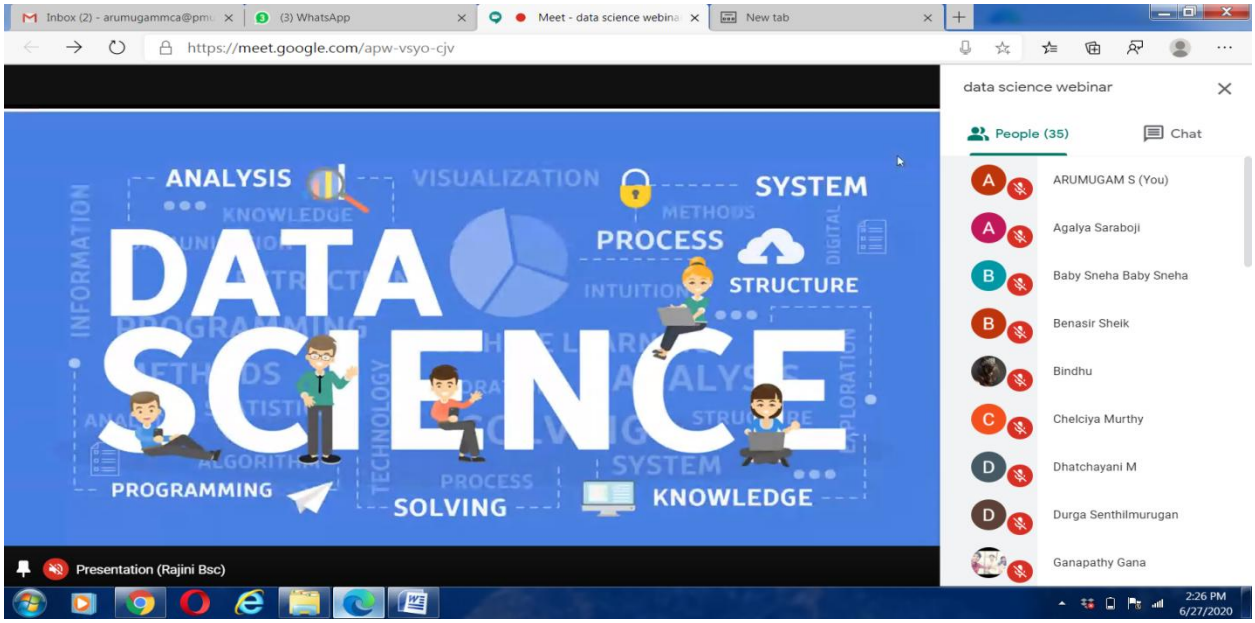
Title : **Data Science**

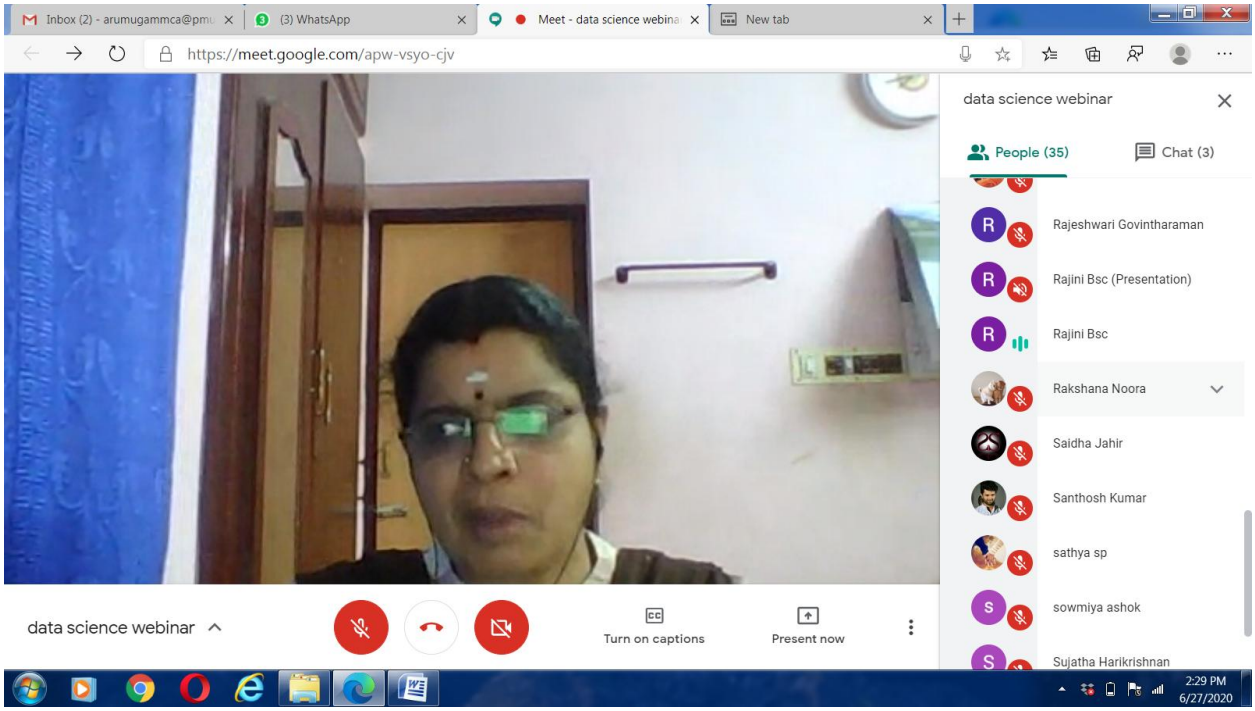
Date : **27.06.2020 Time : 2-3 pm**

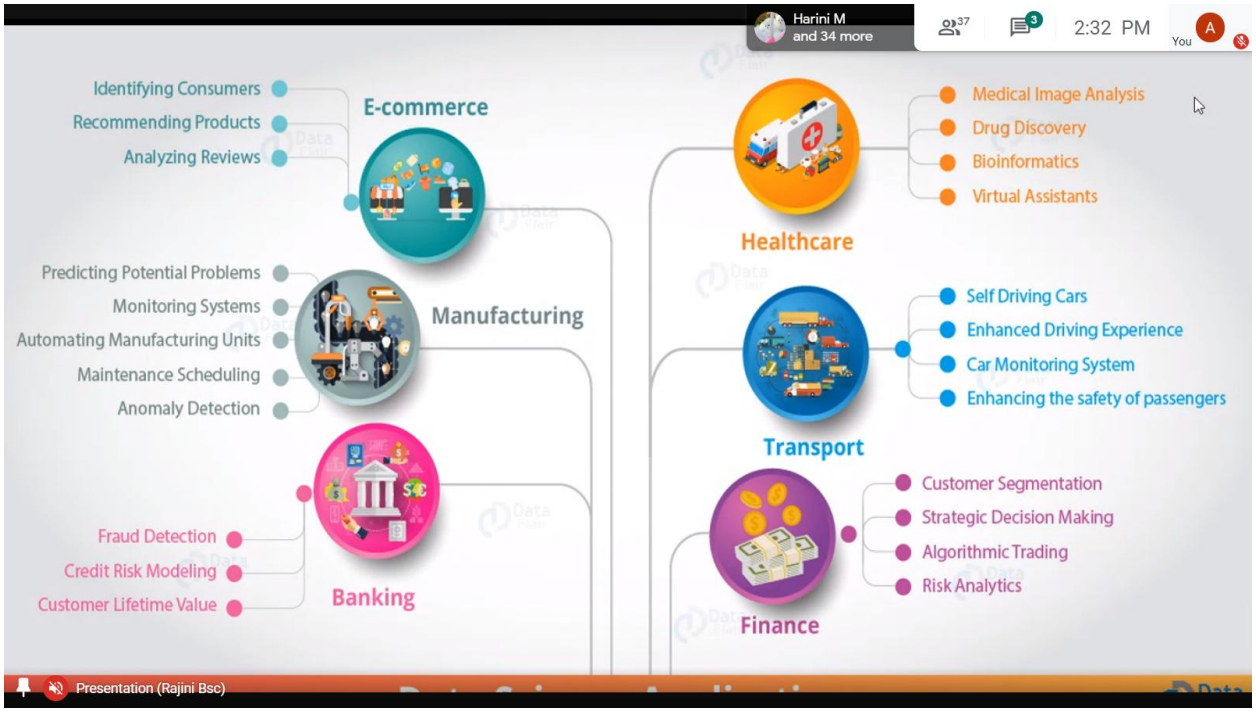
Presented by : **Dr.R.Rajini Surendranath,** Head & Asso.Prof, Gurunanak College, Chennai

Coordinated by: **Mr.S.Arumugam, Ms.P.Premavagini and Ms.K.Nandhini**

No. of students attended and certificates issued : **93**



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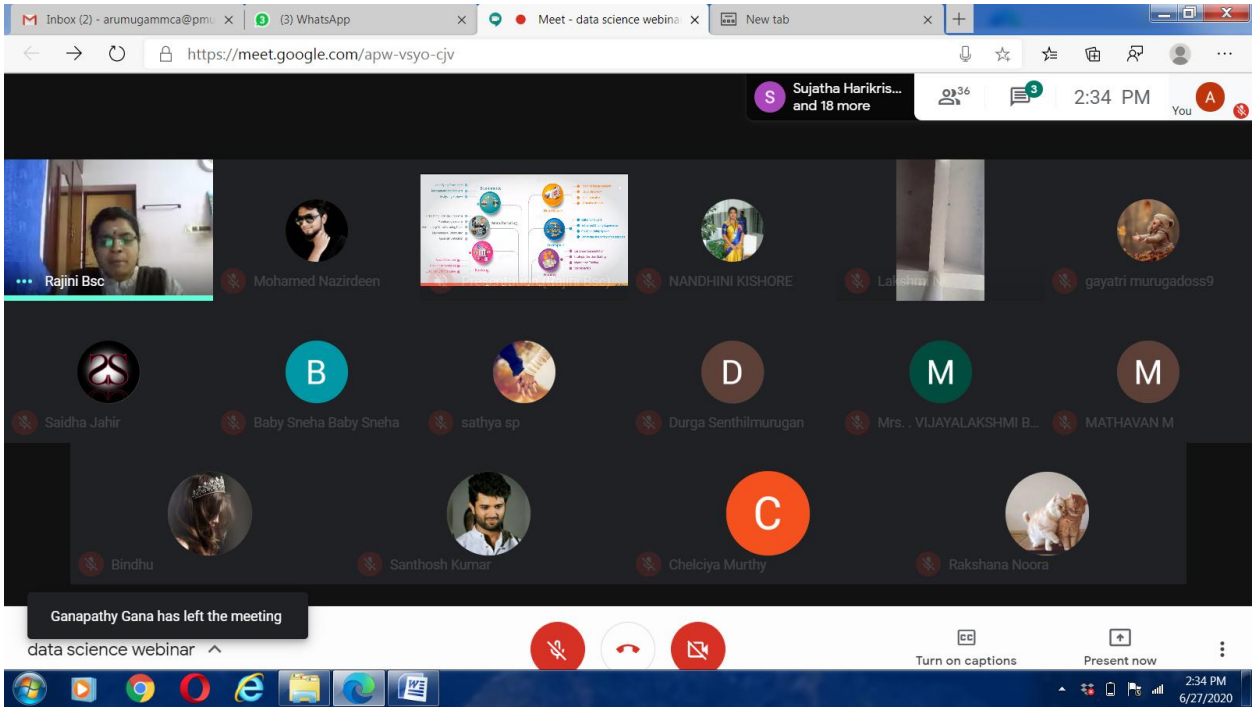
You
Identifying Consumers
Recommending Products
Analyzing Reviews
E-commerce
Predicting Potential Problems
Monitoring Systems
Automating Manufacturing Units
Maintenance Scheduling
Anomaly Detection
Manufacturing
Fraud Detection
Credit Risk Modeling
Customer Lifetime Value
Banking
Medical Image Analysis
Drug Discovery
Bioinformatics
Virtual Assistants
Healthcare
Self Driving Cars
Enhanced Driving Experience
Car Monitoring System
Enhancing the safety of passengers
Transport
Customer Segmentation
Strategic Decision Making
Algorithmic Trading
Risk Analytics
Finance
Presentation (Rajini Bsc)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Rajini Bsc
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Present now
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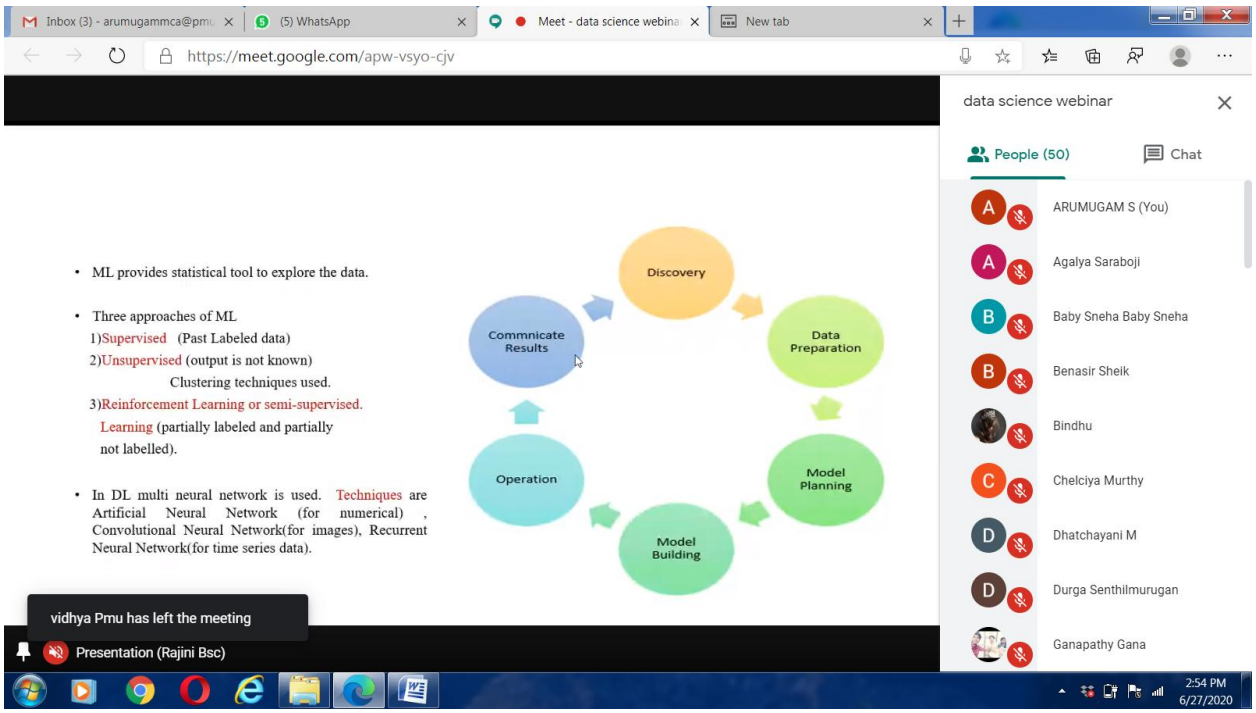
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Ganapathy Gana
• ML provides statistical tool to explore the data.
• Three approaches of ML
1)Supervised (Past Labeled data)
2)Unsupervised (output is not known)
Clustering techniques used.
3)Reinforcement Learning or semi-supervised.
Learning (partially labeled and partially not labelled).
• In DL multi neural network is used. Techniques are Artificial Neural Network (for numerical) , Convolutional Neural Network(for images), Recurrent Neural Network(for time series data).
Discovery
Data Preparation
Model Planning
Model Building
Operation
Commnicate Results
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Presentation (Rajini Bsc)
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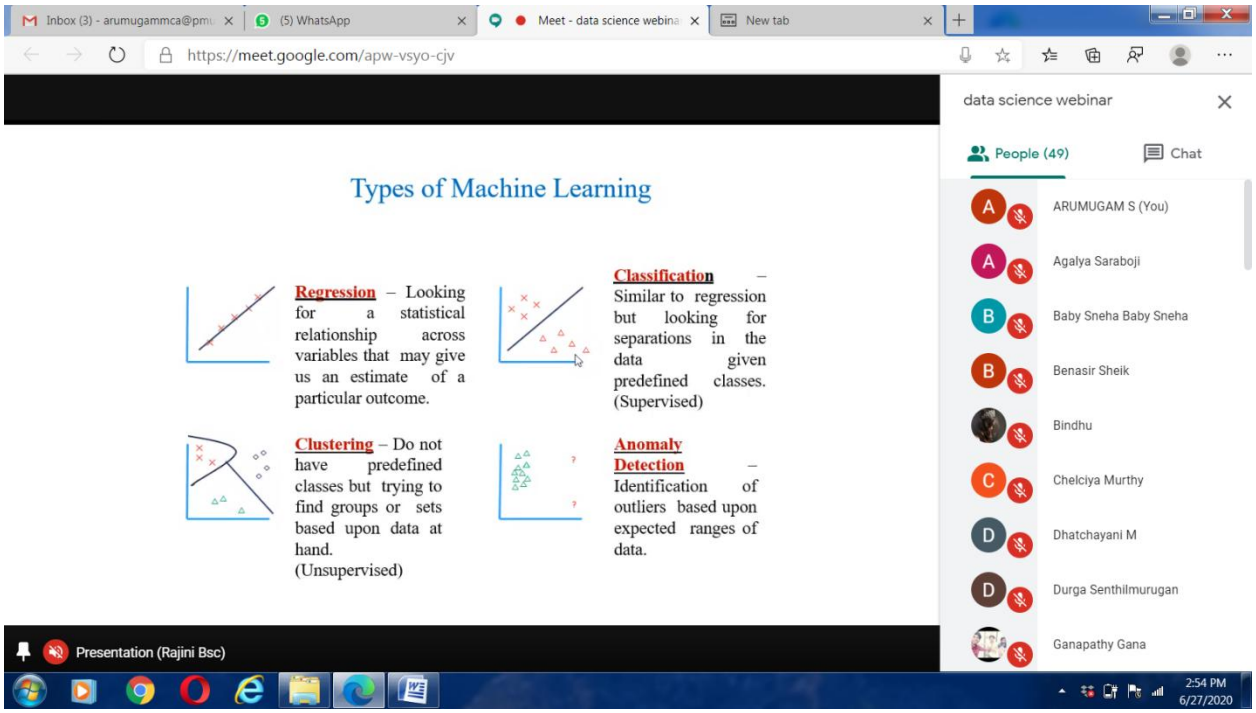
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Durga Senthilmurugan
Ganapathy Gana
Types of Machine Learning
Regression – Looking for a statistical relationship across variables that may give us an estimate of a particular outcome.
Classification – Similar to regression but looking for separations in the data given predefined classes. (Supervised)
Clustering – Do not have predefined classes but trying to find groups or sets based upon data at hand. (Unsupervised)
Anomaly Detection – Identification of outliers based upon expected ranges of data.
Presentation (Rajini Bsc)
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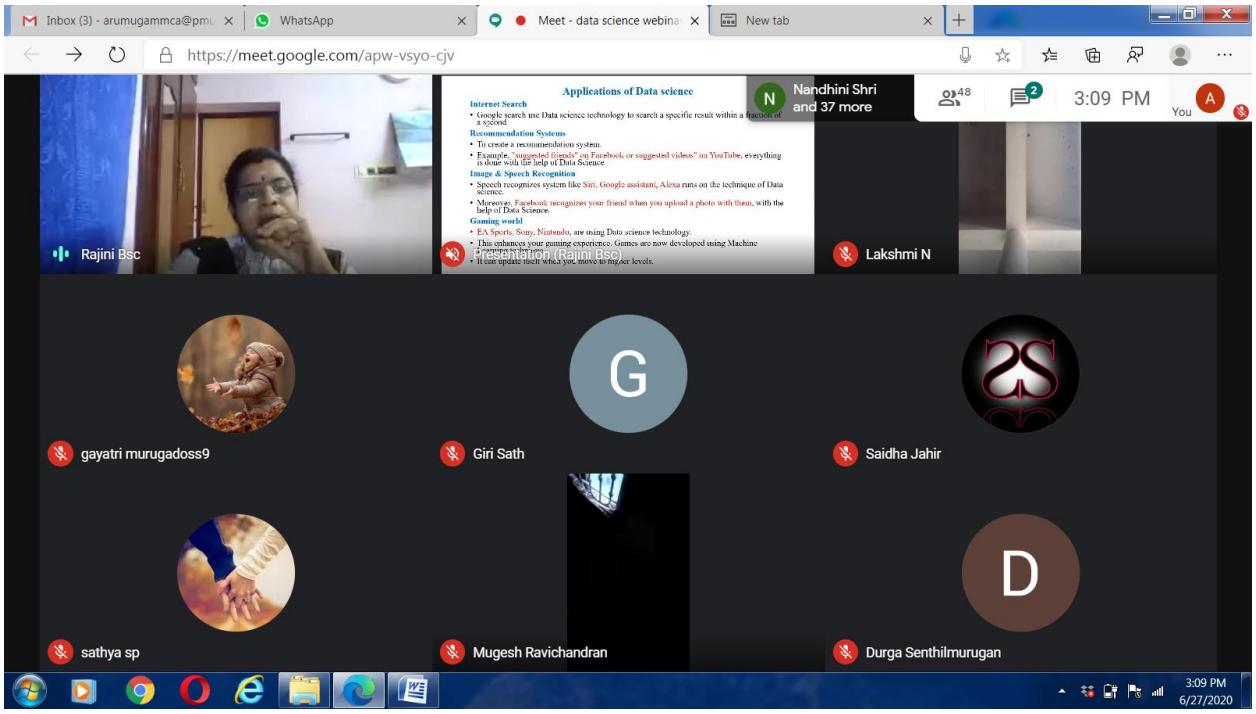
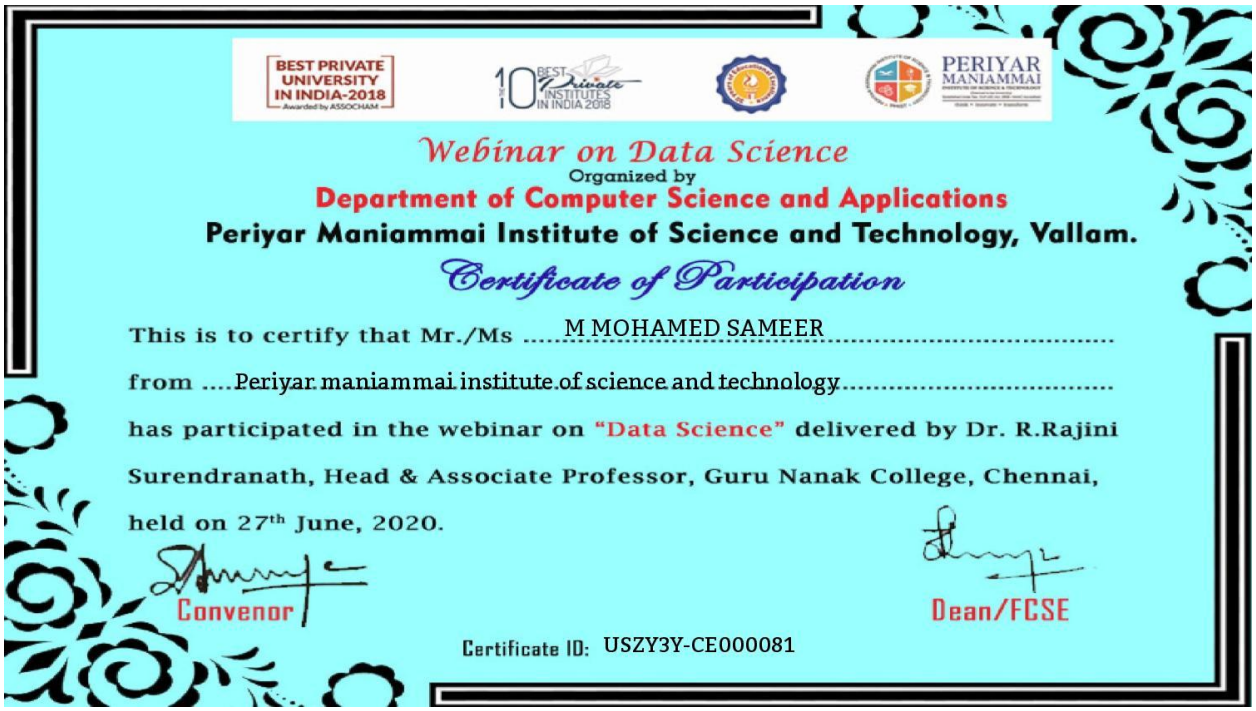


Certificates issued to the students



Vote of thanks proposed by : **Ms.S.Ragavi, III BCA "B" Sec.**