**D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**

**DEPARTMENT OF MATHEMATICS**

organized a Guest Lecture on

**"THE APPLICATIONS OF MATHEMATICS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING"**

**INVITATION**

**Date   :        11.12.2021(Saturday)**

The Department of Mathematics organized a Guest Lecture on the topic **"THE APPLICATIONS OF MATHEMATICS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING"** on 11.12.2021 at 11. 30 p.m. Mrs. G. Vinu Priya, Head & Assistant Professor of Mathematics, D.K.M College for Women(Autonomous), Vellore welcomed the resource persons and the august gathering. Dr. M. Devi, Assistant Professor of Mathematics, D.K.M College for Women introduced the Chief Guest **Ms. B. Pradeepa, Chief Manager, Max life Insurance, Gurgaon** to the participants. She explained about Artificial Intelligence and Machine learning to our students. Artificial intelligence is not intelligence, it is teaching the machine to learn, think and act like humans would do. It is called as Machine learning. She discussed about data which are in various forms with examples. Machines are able to find the patterns in data and apply the pattern learnt and train in new data. Mathematics are used in computers and make them to find patterns on data. Real time applications of Machine Learning in Amazon, Classification of Email, Netflix recommendation videos were briefed to the participants. Linear Algebra concepts are needed to handle large data sets and it transforms datasets into matrices on which operations can be performed. Statistics are used to draw conclusions from the given data. It helps to transform observation into meaningful information. Probability helps in predicting the Likelihood of future event and identify the main source of uncertain event. Joint probability, conditional probability, Bayes theorem, etc. are some of the important probability concepts. Calculus is used to finetune the results. It optimises the performances of the algorithm.  Applications of Baye's theorem was explained in detail. She gave a clear picture about the logical process for Modern data science. The various career opportunities such as Data scientist, Data Analyst, Actuarial Science etc. in current scenario were educated to the students.

Queries from the participants were answered by the resource person in the discussion forum. Participants were permitted to share the views in the forum.  Dr. N. Nithyapriya, Assistant Professor proposed the vote of thanks. We can only accommodate a maximum number of 100 participants in Google Meet. YouTube live streaming was done for the benefits of other students.  We circulated the invitation among all students and the message was sent in WhatsApp. 327 participants registered in the google form and nearly 300 members participated

in the Guest lecture. Feedback was collected from all the participants in dual mode that is through Google form and in written. This Guest lecture was the great opportunity for the faculties and participants to enrich the knowledge. E- Certificates were issued to all the participants through mail.

**Registration link** : https://forms.gle/5qX8NYvJQmueusTV8

**Google Meet** : https://meet.google.com/obv-vuce-xsc

**YouTube Link** : https://youtu.be/SJtdfkjAk7A

# PHOTOS AND SCREENSHOTS

Vellore, Tamil Nadu, India
No. 57, DKM College Rd, Sainathapuram, RV Nagar, Vellore, Tamil Nadu
632001, India
Lat 12.897968°
Long 79.139733°
11/12/21 11:45 AM
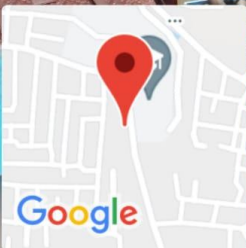
GPS Map Camera



Vellore, Tamil Nadu, India
No. 57, DKM College Rd, Sainathapuram, RV Nagar, Vellore, Tamil Nadu
632001, India
Lat 12.89799°
Long 79.139741°
11/12/21 11:45 AM

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