NARAYANA ENGINEERING COLLEGE::NELLORE

Permanently affiliated to JNTUA Ananthapuramu, Approved by AICTE,
Accorded 'A' grade by Govt. of AP, Recognized by UGC 2(f) & 12(B),
ISO 9001:2015 certified Institution, Approved with 'A+' Grade by NAAC

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on "Technical Talk - Machine Learning & Deep Learning"

The department of ECE has conducted "**Technical Talk - Machine Learning & Deep Learning**" on behalf of "**AKHYANA**" (students association) on 11/03/2020. Students of III Year B.Tech ECE participated in this event.

Total no. of Participants : 69

To enhance leadership qualities and sharpen the skills of the students, ECE department organizing this type events. By participating in this type of events, Students can become all-rounder's.

Technical Talk on,

- Machine Learning &
- Deep Learning

Students shared knowledge about machine learning in this session. Actually, machine learning is about learning to do better in the future based on what was experienced in the past.

Machine learning studies computer algorithms for learning to do stu□. We might, for instance, be interested in learning to complete a task, or to make accurate predictions, or to behave intelligently. The learning that is being done is always based on some sort of observations or data, such as examples (the most common case in this course), direct experience, or instruction.

Diagram of a typical learning problem.
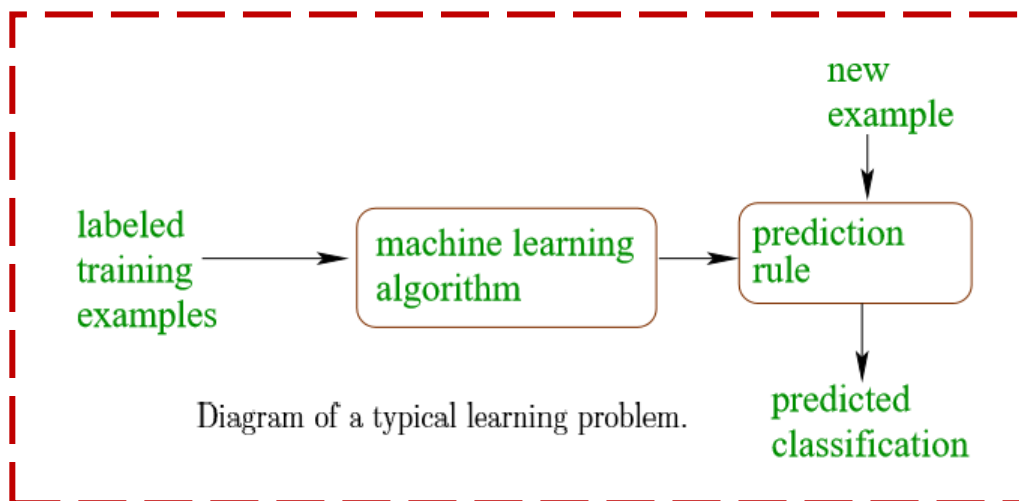
Students explained about machine learning with above block diagram & examples.

Examples of Machine Learning Problems:

There are many examples of machine learning problems. Much of this course will focus on classification problems in which the goal is to categorize objects into a fixed set of categories. Here are several examples:

- **Optical character recognition**: categorize images of handwritten characters by the letters represented

- **Face Detection:** find faces in images (or indicate if a face is present)

- **Spam filtering:** identify email messages as spam or non-spam

- **Topic Spotting:** categorize news articles (say) as to whether they are about politics, sports, entertainment, etc.

- **Spoken Language Understanding:** within the context of a limited domain, determine the meaning of something uttered by a speaker to the extent that it can be classified into one of a fixed set of categories

- **Medical Diagnosis:** diagnose a patient as a su□erer or non-su□erer of some disease

- **Customer Segmentation:** predict, for instance, which customers will respond to a particular promotion

- **Fraud Detection:** identify credit card transactions (for instance) which may be fraudulent in nature

- **Weather Prediction:** predict, for instance, whether or not it will rain tomorrow

Fig: Mr.Sushmanth, explaining about Machine Learning

Fig: Active involvement of the students in Technical talk session.

Fig: Students actively participating in Technical talk session.