

# **MACHINE LEARNING**

## **BATCH (2)**

### **Assignment 1**

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#### **Q1. How and where is Facebook using Machine Learning to improve user experience?**

Facebook uses Machine learning in every aspect. Either you are scrolling the news feed or browsing the images or videos, you have been a part of seeing Artificial Intelligence (Machine learning).

Facebook uses machine learning in the following ways:

Automatic friend tagging suggestions: When a pic is uploaded on Facebook, a suggestion asking if you want to tag your friend in the pic appears. This is done by Facebook's face detection and recognition algorithms based on the advanced deep learning neural network research project Deep face.

Mutual friend analysis: Facebook uses the clustering algorithm (comes under unsupervised learning) to find mutual friends.

Newsfeed: I think Facebook uses ML to arrange your Newsfeed too. Like posts of close friends may come up first. Posts related to your favorite pages come up first.

Friend Suggestions: Machine learning is used by FB to suggest new friends based on mutual friend circles.

In like or Comment representation: if you have a very close friendship to some your friends if your friend comment or like your activity, post so Facebook will show closest friends comments or likes.

#### **Q2: How do you think deep learning can change the world and do wonders?**

Self-driving cars - which are for the most part the killer-app of the current wave of Deep Learning excitement, have been promising full autonomy for years. Lots of money and resources went into such promises as e.g. Uber is betting their path to profitability and future on them and Google has been staking their claim of technological leadership and prowess.

But for all this effort and money spent the goal of fully autonomous driving cars remains as elusive as ever.

Top luxury car manufacturers took a different route of adding smart driver assist features as their premium offerings.

Conversational assistants and chat-bots - there were great hopes that by now a new generation of rather smart virtual assistants would be here, that can carry conversations, do transactions and manage customer interactions. Real progress has been made in speech recognition which has been basically solved and to a more limited extent in machine translation.

**Q3. What is your dream AI project that can become into reality and can have a commercial value?**

I have many AI base project ideas. Some of them which I want to share here are.

- My project related to AI based is to create a prototype/algorithm which is capable of diagnosing disease likewise, with the help of collected data likewise max 50 year's data related to particular project like (heart attack, cancer) if the patient test at the initial level the prototype/algorithm have ability to prediction of serve diseases e.g.: heart attack, cancer are imminent to them or within the span of one year these hazardous disease will associate them and it will show this prediction in the test report. Hence, with this prototype/algorithm they won't get unaware of these bothering disease.
- Automatic driving system: every one want to self-driving system but it has some conditions for example: a car has a self-driving system and its breaking system depends on some particular sensors. Unfortunately due to dust on the sensor, the sensors unable to detect and finally hit someone. So improve this we have to make a better AI system with have excellent accuracy.