**Assignment 1**

1. How and where is facebook using Machine Learning to improve user experience? (2.5 marks)

Answer:

Facebook is an AI company which is using machine learning algorithms everywhere. They collect our data process them and provide you a better experience like in your news feed giving you the most related results to you, in facebook Watch in which they show us that category videos we have previously watched or watched the most, predicting people you may know by linking some relations that are common in both like work experience, school or sometimes your location and also facebook uses computer vision to detect faces from the pictures uploaded on facebook and also allows you to tag yourself in the picture if your face found . Lets flip the table the way we think our data is being used for our better user experience (UX) that’s not exactly true,they collect our data and sell them to companies. In 2018 Facebook–Cambridge Analytica data scandal was a major political scandal in which Cambridge Analytica took the data from facebook and was used for some big political purposes.

2. How do you think deep learning can change the world and do wonders? (2.5 marks)

Neural Networks are the heart of deep learning. Deep learning is changing the world by its applications in self driving cars, diagnosing some illness sometime with more precision than a doctor (A test was taken in which doctors and deep learning models were given images of brain tumor and deep learning models were more accurate than the doctors, deep text (in which your machine tries to understand the actual context of the script), object detection, stock price predictions,predicting who will win the election using human behavioral analysis, spam in email,Deep Fakes (that generates your video that wasn’t actually said by you) using GANs (Generative Adversarial Networks) etc.

3. What is your dream AI project that can become into reality and can have a commercial value. Justify your answer. (5 marks)

My Dream AI project is to develop such a system that allows mute persons (that can listen but can’t speak) to speak. This can be achieved using EEG(electroencephalogram) to detect the brainwaves and predict the text that the person is trying to say and convert it into a voice.