Assignment 1

1. **How and where is Facebook using machine learning to improve user experience?**

Facebook is using machine learning in every aspect. Either we scroll the news feed or brows the images or videos, we are the part of artificial intelligence.

For example if upload an image with our friends, animals or with a beautiful background, so we get suggestion whether we want to tag anyone or not with this image. Here we don’t need to seek that person on Facebook, Facebook will already do it for us. Theoretically this type of learning is known as “supervised learning” in which Facebook learn with past experience (similar images) and label it (giving suggestions of tagging) to that particular image. Moreover Facebook also has a function of presenting a list of mutual friends as well as if we visited ours friend’s newsfeed seamlessly, the person that you have do so, would always give the high priority in every aspect. In other words all the activities related to that particular friend(s) would be partitioned from other friends.

1. **How do you think deep learning can change the world and do wonders?**

Deep learning can be applied for knowledge discovery, knowledge application and knowledge based prediction. Deep learning can be a powerful engine for producing actionable results. There are some examples that how some of the companies that are doing interesting things with deep learning.

Automated driving: automotive researchers are using deep learning to automatically detect objects such as sign boards as well as deep learning is use to detect pedestrians which help to decrease accidents

For defense: deep learning is used to identify objects from satellites that locate safe and unsafe areas for troops.

Medical Research: researchers are using deep learning to detect cancer cells.

Industries: deep learning is used in industries which automatically detect whether workers are within an unsafe distance of machines.

Electronics and robotics: deep learning is used to detect and observed voice as well as it also used to teach robots to hold objects.

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

According to me and my field I want to make AI project which is used to help in management of assets and shares of companies that how any firm can manage its assets and expenses. It is helpful for financial managers to deal with the assets and they can easily invest the money in projects that give higher profit with less risk. This project can help firms to manage their large amount of assets easily.