***ASSIGNMENT 1***

**QUESTION 1:** How and where is Facebook using Machine Learning to improve user experience?

**ANSWER:** Facebook use 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).

* **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 algorithms.

* **Mutual friend analysis:**

Facebook use the clustering algorithm to find mutual friend.

* **Friend suggestion:**

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

**QUESTION 2:** How do you think deep learning can change the world and do wonders?

**ANSWER:** Now that we are in a time when machines can learn to solve complex problem without human intervention

* **Translations:**

Deep learning algorithm can automatically translate between languages .This can be more powerful for travellers, business people and those in governments.

* **Image colorization:**

Transforming black and white image into color was formerly a task done by human hands. Today deep learning algorithms are able to use the context and object in the images to color them to basically recreate the black and white image in color. The results are impressive and accurate.

* **Facial recognition:** Deep learning is being useful for facial recognition not only for security purposes but for tagging people in Facebook posts. We might be able to pay for items in a store just by using are faces in near future.
* **Medicine and pharmaceuticals :**

From disease and tumor diagnoses to personalize medicines created specifically for an individual’s genome, deep learning in the medical field has attention of many of the largest pharmaceutical and medical companies.

**QUESTION 3:** what is your dream AI project that can become into reality and can have a commercial value? Justify your answer.

**ANSWER:** AI can be helpfulin marketingand sales teams to streamline data analysis. Think about all tasks marketers must do daily .These are often repetitive and time consuming tasks. In other words the type of a task that are perfect for AI and are often performed by the sales and marketing teams. In many businesses these teams don’t really speak to one another and this means things often get lost. Marketing is so focused on generating leads and sales are focused on closing those leads. It can be difficult for these teams to truly connect and work together. AI is the solution and is set to streamline marketing and sale. Companies are sitting on and almost endless amount of costumer data. This data needs to be analyzed, cleanup and sorted through questioned and leveraged.