

ASSIGNMENT 1:

- **SUBMITTED BY:**

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- **ANSWER TO QUESTION 1:**

Machine Learning is used in Facebook at various occasions like:

It helps you in finding those people near to you, whom you are in contact on Whatsapp or any other platform.

It helps you in finding some events happening near you. Basically, at back-end, an algorithm is executed which checks the profile of your close friends, and based on their likes and dislikes, it suggests you those events.

It also helps you in finding the type of posts you are interested in. For example, if someone is interested in **Hashem-al-Ghaili** posts, and **What If**, based on it, it will show other Science related posts to that person via Algorithm.

2. ANSWER TO QUESTION 2:

Deep Learning is a subset of Machine Learning and Artificial Intelligence. It has networks that are able to learn from an unstructured data. Basically, it identifies speech or an image. In my opinion, deep learning will be able to recognize millions of images and speeches. A good example is of Google Images. Let's say someone likes a dress, and she saw other person walking down the street wearing the same dress. So, at back-end, Google Image had already stored that image via algorithm. It will increase market productivity.

Another example is speech-to-text conversion, and then performing inter-language conversions. A Microsoft Researcher, at a presentation in China, demonstrated this effect, firstly, his spoken words were converted into English, and then into Chinese. Major Companies like Microsoft, Google, Twitter, IBM has already tested deep learning, and are making improvements in it.

3. ANSWER TO QUESTION 3:

My dream A.I Project that can become into reality is Cricket Match Probability Calculator. In any format of Cricket match, that is Test, Odi and T20, rain is the major obstacle in deciding the winning team probability. When rain happens too much, it is more difficult to decide. So, to avoid this problem, an A.I system could be developed which will check on which times the rain occurred, and by which pressure and temperature of the day, it occurred. And by using A.I techniques, it can predict the probability of winning/losing team. After this development, it can be very helpful in International World Cups or Champions Trophy(where tie is to be maximum avoided), also it can help in test matches.