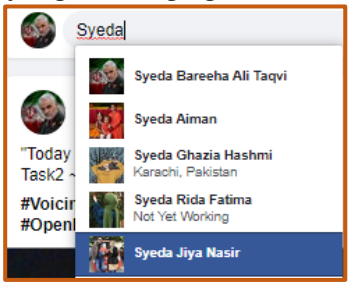
NAME: SYEDA BAREEHA ALI

1. How and where is Facebook using Machine Learning to improve user experience?

Ans. Machine Learning is used in Facebook in numerous aspects to improve user experience such as:

a) Placing relevant advertisement for the user by analyzing his/her age, gender, location, page likes, interests and profile etc.

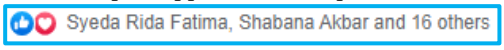


b) Under ML deep neural networks gives facial recognition technique that is implemented for tag suggestions on faces in a post.

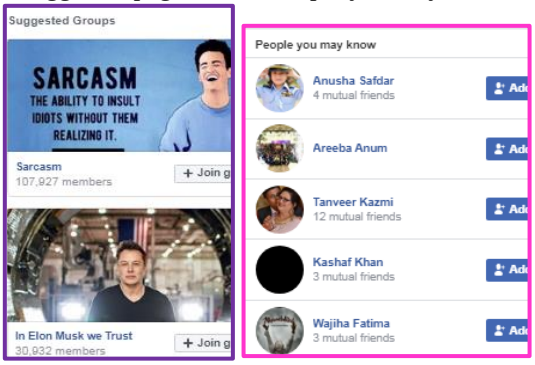
c) While tagging someone on a post or comment, due to ML the ID of the person to whom you have communicated frequently appears on the top.

d) With the help of sentiment analysis, you can find out the nature of opinion that is reflected in comments so that the author of the post know what is the average nature of the views of the users.

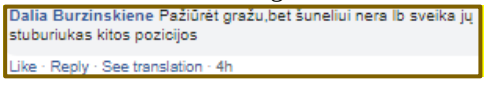
e) The name of the person who is close to you or to the post appears at the top of the list of those who have liked your post.



f) ML is used for displaying the list of "Suggested pages" and "People you may know".



g) The translator in Facebook is also an application of Machine Learning.



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

Ans. Deep learning is no doubt doing wonders and has the potential to change the world. It is better than humans in almost all aspects of life we see. Deep neural networks are better than doctors in many cases like in diagnosing medical injuries. They can be used in security systems. They can be used in stores to avoid theft. Translators can now translate live. The robots having deep neural networks now compete against human artists. They are used to know how the crops are growing and whether they get enough water and sunlight or not and a lot more. Deep neural networks provide cheap, accurate, safe and, most of the times, human-level accurate results. These networks can now learn on their own by trial and error and not just by imitating. Deep Learning is providing tremendous opportunities as well as many threats. Deep neural networks can be easily fooled and are hack-able. There will be an issue of jobs being lost. There will also be an issue of generating fake news as deep neural networks are capable of creating fake pictures or videos. So Deep Learning would bring positive as well as some negative impacts in this world. And no doubt, the advancement of this technology might eliminate those threats.

3. What is your dream AI project that can become into reality and can have a

commercial value. Justify your answer.

Ans. My dream AI project is to develop a microscopic brain-chip that will be attached permanently on human brain and would be used:

(1) to communicate with a person anywhere and anytime just by a thought.

(2) to cure any disability or dysfunction of the brain.

The working of the chip would be based on both artificial and biological neural networks.

If we consider our smartphones, we can block, unblock, follow or send message to a person etc. Similarly, all these functions and a lot more could be done by using the chip that would work on the basis of the person's thinking. Whenever we want to call or send a message, we would just think and it would be implemented. As a result, the recipient would receive a call signal or a message from us. Secondly, if a part of body is not working, the chip would make it function properly using the artificial neural network.

Humans currently reign supremely on planet Earth, because they have the most powerful form of intelligence. By unlocking our intelligence (brain), we will further find its millions of hidden secrets.