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Q1) How and where is Facebook using machine learning to improve user experience?

Ans) Facebook is currently using machine learning algorithms for:

1. **Textual Analysis:**
   Facebook uses **DeepText** to understand many things **like** grammar, idioms, slang words, context, etc. This text engine helps in understanding thousands of posts in a second in more than 20 languages with as much accuracy as you can.

2. **People You May Know:**
   Facebook uses Machine Learning algorithms that analyze your profile, your interests, your current friends and also their friends and various other factors to calculate the people you might potentially know.

3. **Facial Recognition:**
   Facebook uses a DL application called **DeepFace** to identify faces while capturing images or uploading images and recognize people in photos.

4. **Targeted Advertising:**
   Facebook uses **Deep Neural Networks** that analyze your age, gender, location, page likes, interests, and even your mobile data to profile you into select categories and then show you ads specifically targeted towards these categories.

5. **Language Translation:**
   Facebook Translator uses Machine Learning algorithms to translate text from one language to another simply by clicking on "See Translation" button.

Q2) How do you think deep learning can change the world and do wonders?

Ans) Deep Learning being the subset of machine learning uses artificial neural networks, algorithms inspired by the human brain learn from large amounts of data. It encompasses machine learning, where machines practice through experience and acquire skills without human involvement. Just like human brain, deep learning algorithms learn to perform classification tasks directly from images, text, or sound. Models are trained to take decisions and conclude results of their own. Recently DL is being used in Self-driving cars in the field of fastest growing technology. It uses data from cameras, sensors, geo-mapping to help create succinct and sophisticated models and navigate through traffic, identify paths, signage, pedestrian-only routes, and real-time elements like traffic volume and road blockages. And that's how DL can do wonders in the future.

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Q3) What is your dream AI project that can become into reality and can have a commercial value? Justify your answer.

Ans) To imagine the future in terms of innovation means, most fundamentally, to imagine change in terms of new ideas, and to think of life as an array of individual experiments and choices. It is to ask how we might best encourage innovation, how we might allow the best innovations to flourish (and the worst to be rejected), and how new ideas allowed to thrive can alter human life.

Presently, everybody is so attached to digital devices and technology these days that they want something that would help them in everyday life. Each and every person is somewhat so concerned about their body weights, so I would like to make smart thermometer that provides such type of technology that when doctors use those thermometer, it would not only calculate the body temperature, but also generates results for the total consumptions of water and the amount of calories he burnt throughout the day. These thermometer would be rechargeable. This would help doctors to evaluate a person's health. Doctors can easily identify water in the bodies by using this thermometer and can tell how much he should increase the intake of water**.** This would help in curing of different diseases.