Wardah Arshad

Assignment 1

Answer#1

Facebook is a popular free social networking websites that is definitly a timepass activity having fun for its users. It uses machine learning algorithm in several ways:

- Facebook is the best site for digital marketing. It uses machine learning algorithm to display advertisment related to user's interest.
- Facebook records the memories of every user and create a video at the end of each year.
- Facebook messenger indicates the "active now" status of very close friends of its user at the very top of the list of active friends.
- Facebook recognize close friends of user and if they react on your post, it displays their names at the very front of post, and if user wants to mention them in comments section, their names will be shown at the top.
- Facebook uses algorithm for facial recognition of its users in a picture.
- Facebook relates your mobile contact list and shows them in "people you may know" section.
- Facebook translate the text written in any language by using machine learning algorithm.

Answer#2

Deep learning has achieved the following breakthroughs, all in historically difficult areas of machine learning using artificial neural networks and convolutional neural networks:

- Near-human-level image classification
- Near-human-level speech recognition
- Near-human-level handwriting transcription
- Improved machine translation
- Improved text-to-speech conversion
- Digital assistants such as Google Now and Amazon Alexa
- Near-human-level autonomous driving
- Improved ad targeting, as used by Google, Baidu, and Bing
- Improved search results on the web
- Ability to answer natural-language questions
- Superhuman Go playing

World is still exploring the full extent of what deep learning can do. Recently, started applying it to a wide variety of problems inside and outside of machine perception such as, automated driving to detect signs boards, pedestrians and traffic lights, aerospace and defense identify safe or unsafe zones for troops, medical research for cancer to automatically detect cancer cells and indicate their stage of treatment, industrial automation to improve workers safety around site area and unsafe region. If successful, this may herald an age where deep learning assists humans in science, software development, and more. That's how deep learning can do wonders.

Answer#3

My dream AI project is to make a smart mirror. It's a two- way mirror with an electronic display behind the glass. The display can show the viewer's different kinds of information in the form of widgets. It can suggests different types of suitable ideas about hairstyling, makeup and shoes with respect to its viewer's dressing. My smart mirror also indicates date, time, weather and temperature status. It can also propose suitable suggestion about dressing with respect to weather and temperature. My everyday schedule having its related dress up style can also be indicated by my smart mirror. For eg: if I ll have a meeting at 9am, it suggest me to dress up formal. Further more, it also recommend ideas about room's decore and it can automate room too. Commercially, it receive much value from women as well as men because both wants to look awsome and wants to rock in the gathering.

My another dream AI project is to make a scarf/dupatta which can prevent women from acid attacks. This scarf senses the pH of the acid and can become acid resistant. Simple covering the face with these clothes can prevent or atleast minimize the damage to the girl, saving her from horrible life ahead. Commercially, it is very benefial for the protection of women and safeguard them from cyber crimes.