Course: Artificial Intelligence and Machine Learning

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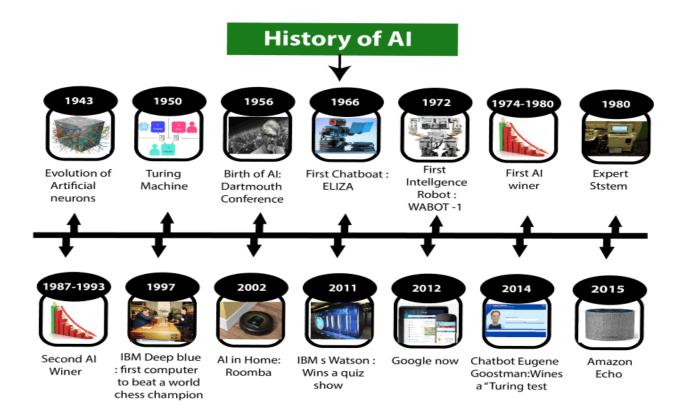
WEEK1- Artificial intelligence concepts

Session1:

Latest developments in AI domain

- Google's DeepMind AI Just Taught Itself To Walk -YouTube
- Introducing Amazon Go and the world's most advanced shopping technology
- -YouTube
- IBM Watson

Understanding the evolution of AI and ML



Brief History of Artificial Intelligence

Here's a brief timeline of the past six decades of how AI evolved from its inception.

- 1956 John McCarthy coined the term 'artificial intelligence' and had the first AI conference.
- 1969 Shakey was the first general-purpose mobile robot built. It is now able to do things with a purpose vs. just a list of instructions.
- 1997 Supercomputer '<u>Deep Blue</u>' was designed, and it defeated the world champion chess player in a match. It was a massive milestone by IBM to create this large computer.
- 2002 The first commercially successful robotic vacuum cleaner was created.
- 2005 2019 Today, we have speech recognition, robotic process automation (RPA), a dancing robot, smart homes, and other innovations make their debut.

2020 - Baidu releases the Linear Fold AI algorithm to medical and scientific and medical teams developing a vaccine during the early stages of the SARS-CoV-2 (COVID-19) pandemic. The algorithm can predict the RNA sequence of the virus in only 27 seconds, which is 120 times faster than other methods.

Impact of AI

1. Daily life

Artificial intelligence makes our lives safer, easier and healthier in so many ways. But it can also pose serious threats to our rights and society as a whole.

Examples,

- face ID and image recognition
- emails
- apps
- · social media
- Google search
- digital voice assistants like Apple's Siri and Amazon's Alexa

2. Work life

The impact of artificial intelligence on workers includes both applications to improve worker safety and health, and potential hazards that must be controlled.

3. Work force

one-third of all employment will be at risk of being automated. The workforce segment most likely to be affected will be individuals with a low level of education. Anxiety about employment losses induced by greater use of machines has existed for centuries.

4. Products and Services

AI can act as a support system for experience specialists looking to incorporate post-launch user

feedback and suggestions into a product. AI in product development can also be used to compare

similar products and offer suggestions based on current social media trends.

Questions:

Q1: In your opinion, how will AI impact application development? And What would you say

are common misconceptions about AI?

Q2: Discuss the history of Artificial intelligence

Q3: Discuss latest development in AI domain

Multiple choice questions and answers

1. Who is the inventor of Artificial Intelligence?

a) Geoffrey Hinton

b) Andrew Ng

c) John McCarthy

d) Jürgen Schmid Huber

Ans: c

2. Latest developments in AI domain

a) Google's DeepMind AI Just Taught Itself To Walk -YouTube

b) Introducing Amazon Go and the world's most advanced shopping technology

c)YouTube

d)All the above

Ans: d

3: The impact of artificial intelligence on workers includes both applications to improve worker
a) safety
b) health
c)potential hazards
d)All the above
e) None of the above
Ans: d
4. In year Baidu releases the Linear Fold AI algorithm to medical and scientific and medical teams developing a vaccine during the early stages of the SARS-CoV-2 (COVID-19) pandemic
a)2020
b)2022
c)2018
d)2012
Ans: a
5: Is AI used for face ID and image recognition?
a) True
b) False
Ans:a