**LECTURE 1**

**DEMAND OF AI**

1)More computational power - : greatest technology that made this possible are gpu’s, since there is more computational power it is possible to implement AI in our daily aspects.

2)More data -: There is lot of data and generating data at an immeasurable phase. Artificial intelligence is used to process lot of data and help to derive useful insights. So, in order to have a smart AI engine to make smart decisions or how to classify an object from an image, for this big data is needed to do it efficiently.

3)Better algorithms - : There are very effective algorithms which are based on the idea of neural networks

4)Broad Investment -: Companies such as google, amazon, Microsoft invested heavily on AI as they believe AI is future.

**What is Artificial Intelligence?**

AI is defined as science and engineering of making intelligent machines. It is the science of making machines that can think and act like humans.

It is the theory and development of computer systems able to perform tasks normally requiring human intelligence such as visual perception, speech recognition, decision making and translation between languages.

**AI has been used successfully in…..**

* Creating machines and robots that have been used in wide range of fields including healthcare, marketing, robotics, business analytics and many more..
* Games
* Medicine
* The Web

**AI APPLICATIONS**

1)Google predictive search engine – google making recommendations to search from when typing in the search engine

2)AI machine learning and image recognition software to analyze legal documents.

3)Health care organizations use IBM AI technology for medical diagnosis.

4)Google AI eye doctor - : can examine retinal scans and identify a condition called diabetic retinopathy which can cause blindness.

5)Facebook uses machine learning and deep learning to detect facial features and tag your friends.

6)Twitter’s AI that is used to identify any hate speech and terroristic language in tweets.

7) Google Assistants - : Virtual assistants such as Siri or Alexa and newly released google duplex.

8) Netflix -: Netflix has developed a personalized movie recommendation for each of its users