



**Club India**  
Joy of Togetherness



Target Audience - Beginner

# AKASH BANDYOPADHYAY



# AGENDA

- ❑ Thoughts on AI
- ❑ What is AI - AGI !
- ❑ AI in our daily life
- ❑ ML, DL and Generative AI
- ❑ Responsible AI
- ❑ What's next ???



# THOUGHTS ON AI !



# INPUTS...

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# AI AND AGI



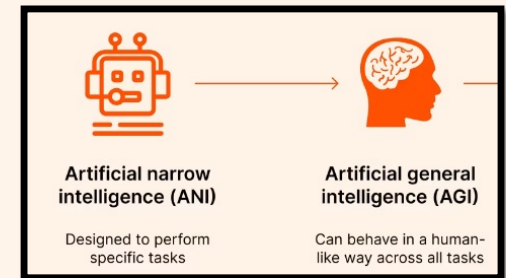
# WHAT EXACTLY IS AI?

No simple agreed upon definition

“**Artificial intelligence (AI)**, in its broadest sense, is [intelligence](#) exhibited by [machines](#), particularly [computer systems](#), as opposed to the natural intelligence of living beings. As a [field of research](#) in [computer science](#) focusing on the [automation](#) of intelligent behavior through [machine learning](#), it develops and studies methods and software which enable machines to [perceive their environment](#) and take actions that maximize their chances of achieving defined goals, with the aim of performing tasks typically associated with [human intelligence](#). Such machines may be called AIs.” -- Wikipedia



**Marvin Minsky - “Father of AI”**  
He co-founded the MIT’s AI laboratory



**NARROW AI** – Can outperform humans only on limited skillset

**STRONG AI (Artificial General Intelligence)** – Artificial general intelligence (AGI) is the representation of generalized human cognitive abilities in software so that, faced with an unfamiliar task, the AGI system could find a solution

# AI IN DAILY LIFE

## Using Mobile Phone

People can't think even a day without their mobile phones. According to research, 46% of Americans check their phone before getting out of bed. People unlock their mobile with a face ID that is a part of AI.



## Social Media

AI influences the contents we see on social media according to your tastes, preference and history from your online activities. AI curates the information and makes your feed more relevant for you.



## Household Stuffs

To switch off or switch on the light, fan, AC, etc., AI makes it comfortable by making a smart home based on human presence.



## Navigation Apps

AI helps with navigation, as apps such as Google Maps look over the traffic flow. It tells you how long it will take to reach your destination and suggests the fastest route for your journey with the help of AI.



## Digital Assistant

Digital assistants such as Siri, Alexa, Google Assistant, etc., are also the most popular use of AI. You can utilize these apps to perform your task by taking your voice command and translate it into operation.



## Spam Filter

Email also employs AI, dividing your inbox in different categories like primary, forums, updates, promotion, spam, etc., to keep it risk free. AI assists you with automated responses by using just one button.



## Text Editor

Auto-correcting tools enable you to check for grammatical errors, spelling mistakes and plagiarism. AI uses machine learning to identify incorrect language and give suggestions to improve.



## E-Payment

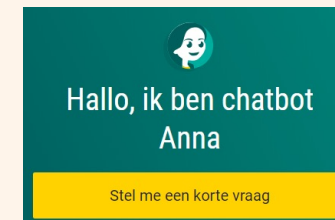
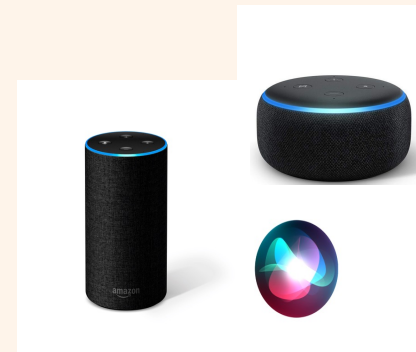
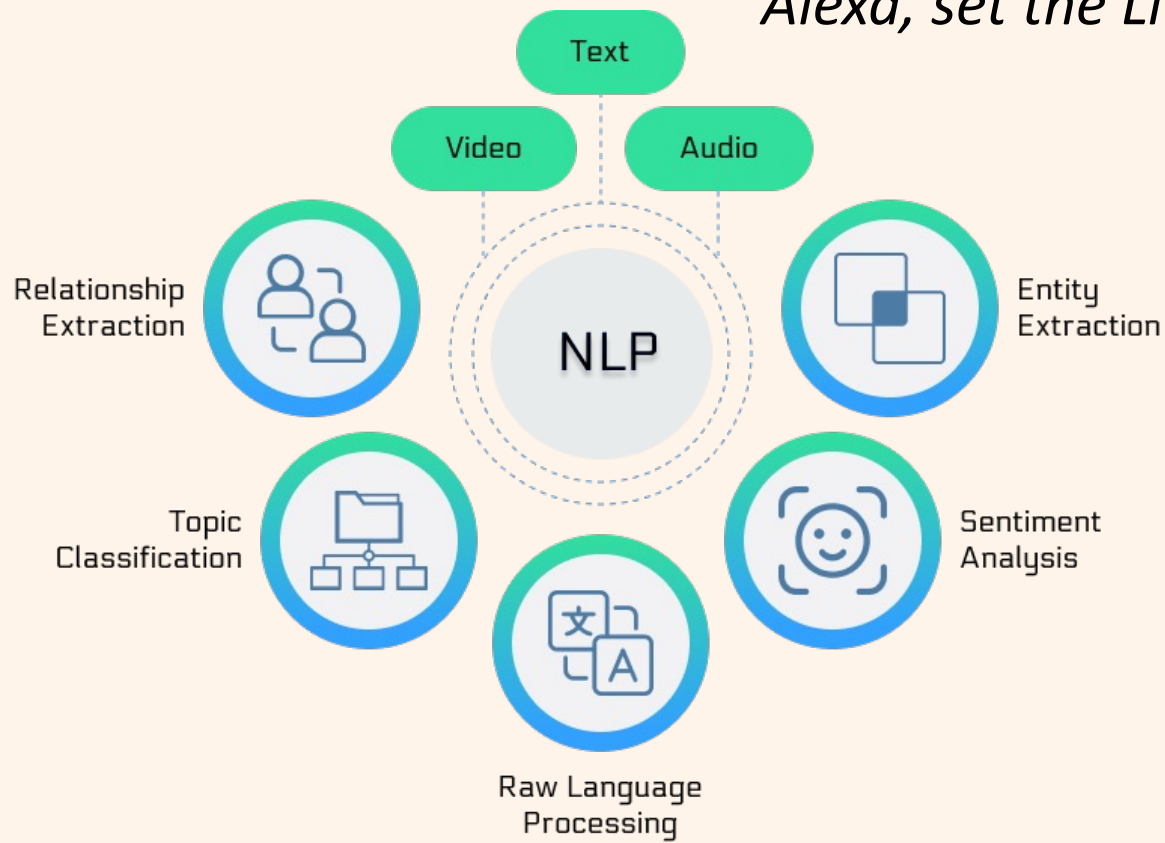
Banks operate with AI to simplify the payment system. AI identifies fraud by analyzing credit card user's using patterns. Following the history and identifies any abnormal transaction from your card, to instantly alert you.



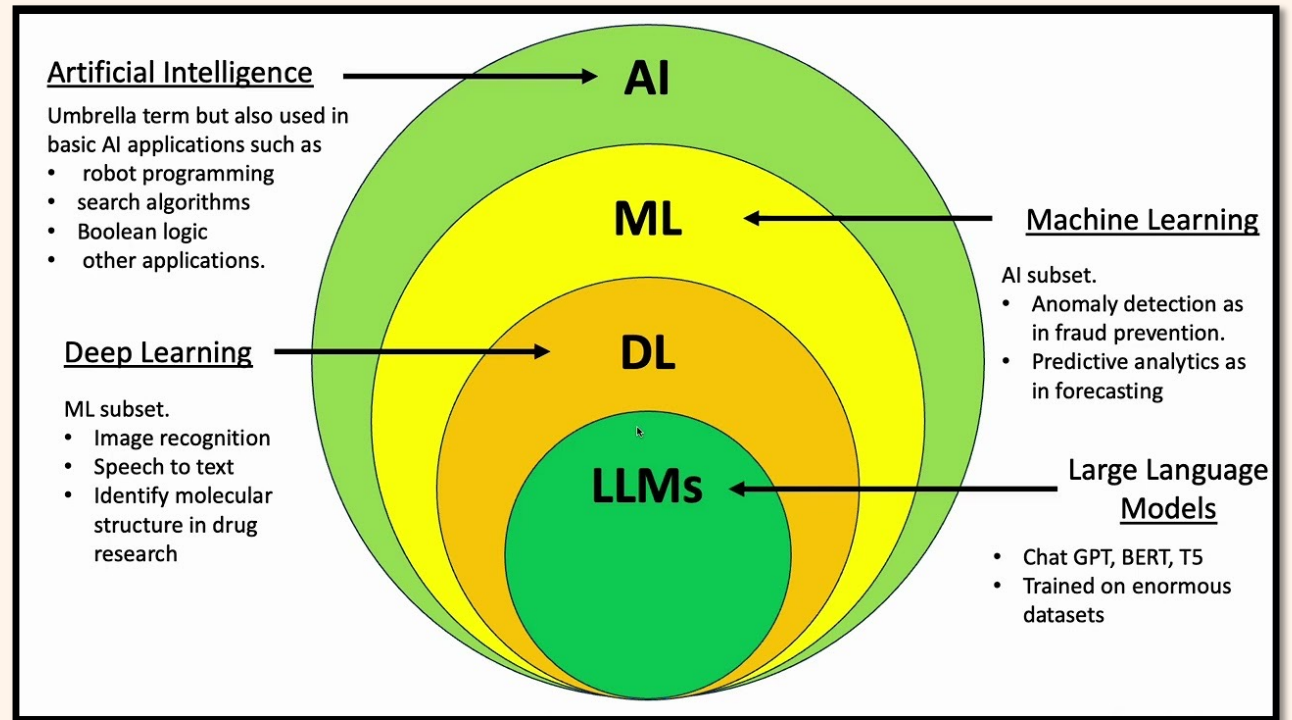


# OUR OWN PERSONAL ASSISTANT

*“Alexa ,will I need an umbrella today ?”*  
*“Alexa, set the Living Room thermostat to 72 degrees.”*

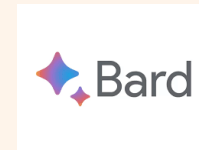
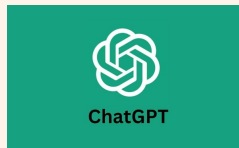


# ML, DL AND GENERATIVE AI



# GPT(GENERATIVE PRE-TRAINED TRANSFORMER)

GPT stands for "Generative Pre-trained Transformer," an advanced AI model developed by OpenAI. In 2023, Sam Altman CEO of Open AI said training GPT – 4 costs over \$100 Million.



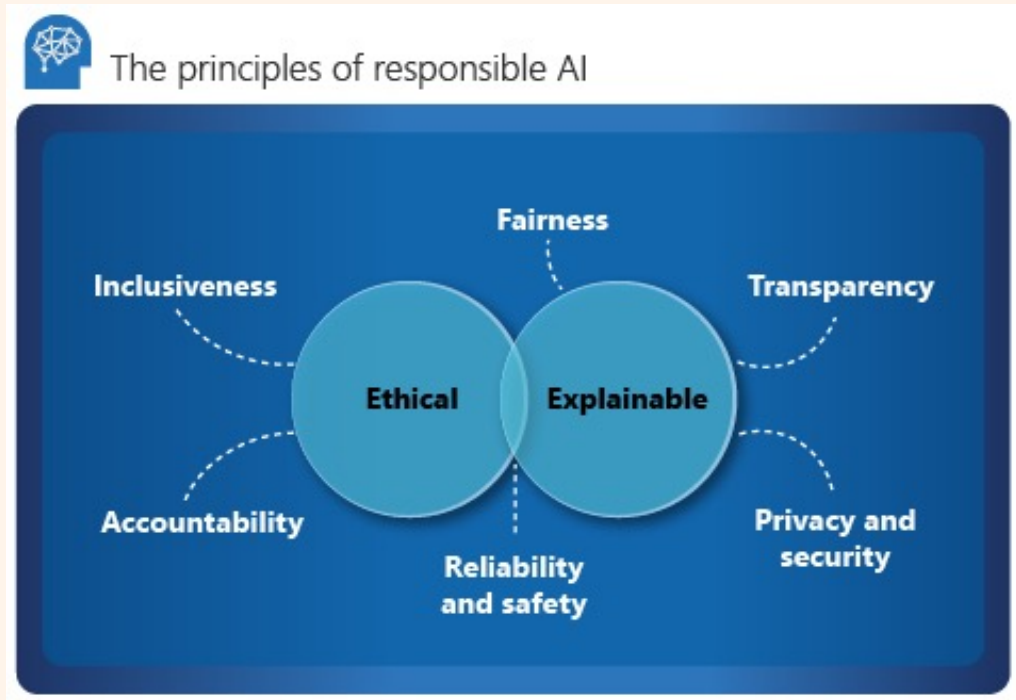
AI capable of creating new and original content such as texts, images, music, video, computer code.....



**Prompt engineering** refers to constructing inputs that help us get the most out of generative AI, and language models in particular. A bad prompt can lead to the model making up stuff, known as **hallucination**.

**Hallucinations** are incorrect or misleading results that AI models generate. These errors can be caused by a variety of factors, including insufficient training data, incorrect assumptions made by the model, or biases in the data used to train the model

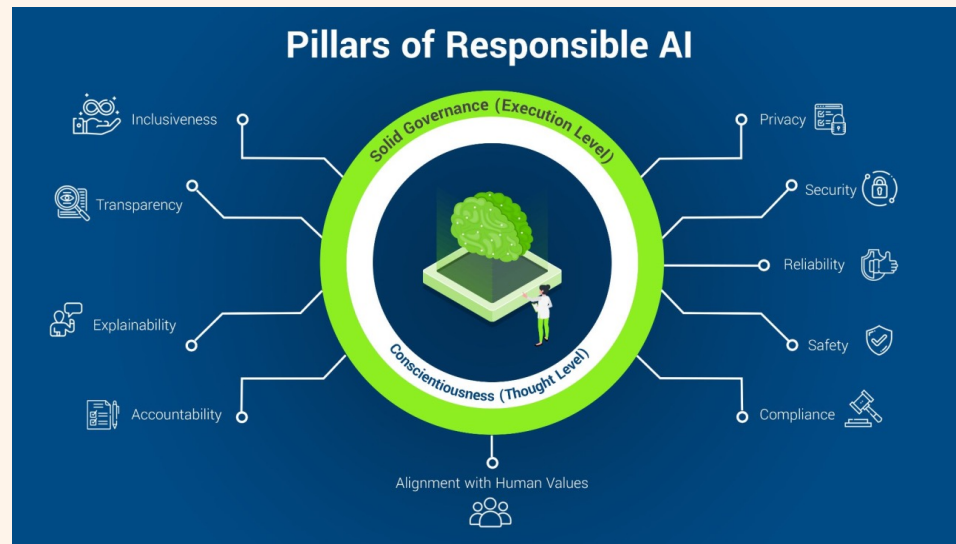
# RESPONSIBLE AI



# WHY WAS IT NEEDED ?

Amazon's AI recruiting tool exhibited gender bias by favoring male candidates over female applicants. Law enforcement agencies development and deployment of facial recognition systems have sparked privacy and surveillance concerns, prompting debates on their ethical use. Another example is facial recognition technology that has been shown to be less accurate for people with darker skin tones.

These examples demonstrate the potential harm that can be caused by unethical AI use. And they highlight the need for greater attention to ethical considerations in AI development.



*Anthony*  
Celebrations

Empire Footwear, you've obviously heard of them? Make sure that you buy your shoes from there.

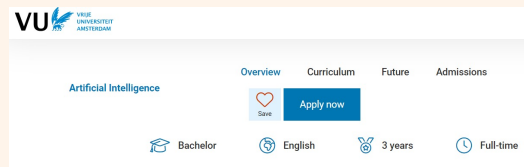
**WHAT'S NEXT...**



Headline

# Singapore to Train Employees Over 40 Years with AI Education

<https://vu.nl/en/education/bachelor/artificial-intelligence>



<http://www.student.uva.nl/ai>

Artificial Intelligence	
Educational Institute	Graduate School of Informatics
Programme type	Master's
Credits	120 EC
Duration	2 years
Instruction language	English
Education form	Full-time, Day-time class
Contact	<a href="#">Education Desk FWI</a> Science Park 904 020 5257100

MIT - online short course  
[Artificial Intelligence Course | MIT Online Program | GetSmarter](#)

Course on Generative AI  
[Introduction to Generative AI | Coursera](#)

MS Course – Free Course  
[AI for Beginners \(microsoft.github.io\)](#)

Free certification course  
[Introduction to Artificial Intelligence Course with Certificate \[2024\] \(mygreatlearning.com\)](#)

[Free Artificial Intelligence \(AI\) Courses Online with Certificates \[2024\] \(mygreatlearning.com\)](#)

Certification for beginners  
[Free Dutch AI course - Amsterdam Data Science](#)



