ADAPT ARTIFICIAL

How AI can enable people to overcome physical disadvantages

BY:- JAGRITI SUNEJA

PROBLEM STATEMENT

In 21st century AI has become inevitable and everything in this world with the help of AI is done so easily and can be operated 24X7 without interruptions and downtime but people having physical disabilities like lack of adequate strength, incapacities or people with mental or physical disadvantages might not be able to adapt themselves in the comfortable zone. These people may be require at least one person to do their daily chores or are reliant to take care of them. They struggle in this modern world where everything can be sorted with AI.

PROJECT OBJECTIVE

This project aims to solve this problem by enabling user to use artificially intelligent robot which will use different AI technologies which could help them to build their cognitive skills, help them in their daily chores to make their lives little easier and help them in decision making.

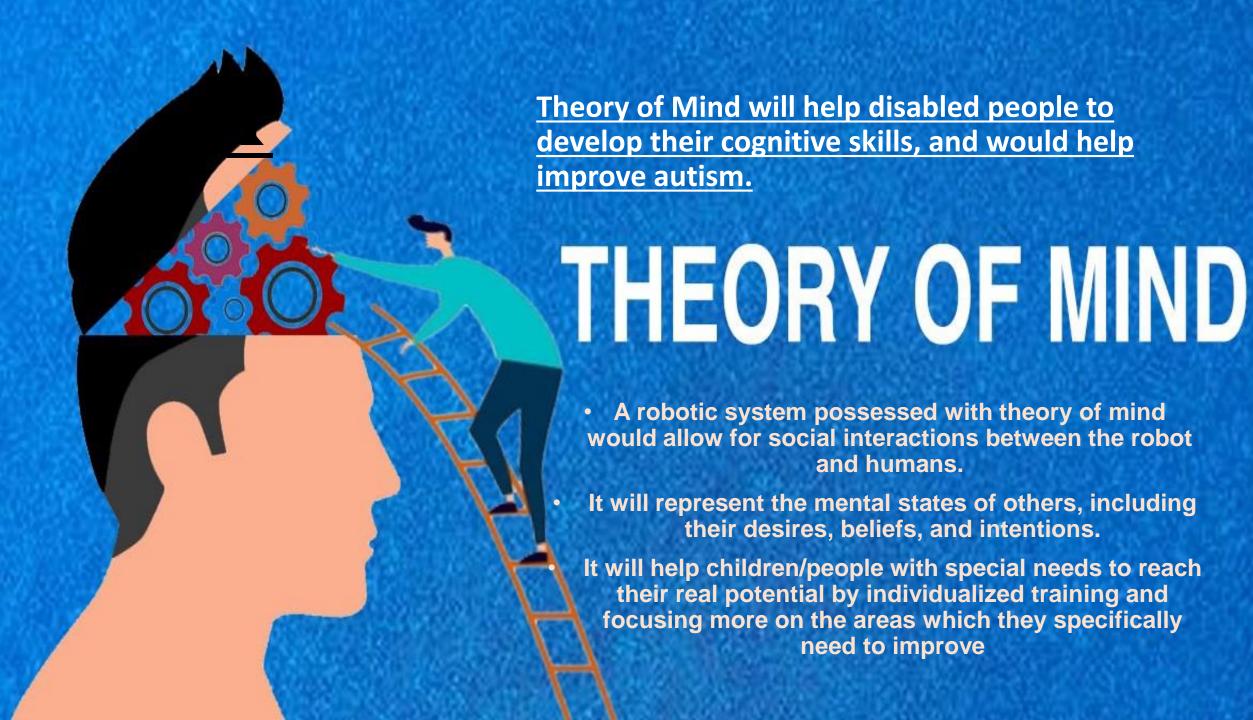
- For teaching cognitive skills AI tool Theory of Mind can be used- the ability of the human mind to attribute mental states to others.
- Using computer vision which will allow system to derive meaningful information from digital images,
 videos and other visual inputs and take actions or make recommendations based on that information.
- voice assisted technology which can enables individuals with disabilities to access information much easier, all just by speaking to their devices. Through simple voice commands they can control nearly every aspect of their home
- installing Natural language processing(NLP); speech to text and text to speech for people with speech
 impediments and voice systems which can learn speaker's pronunciation over time and translate the
 user's words into clear and normalized speech

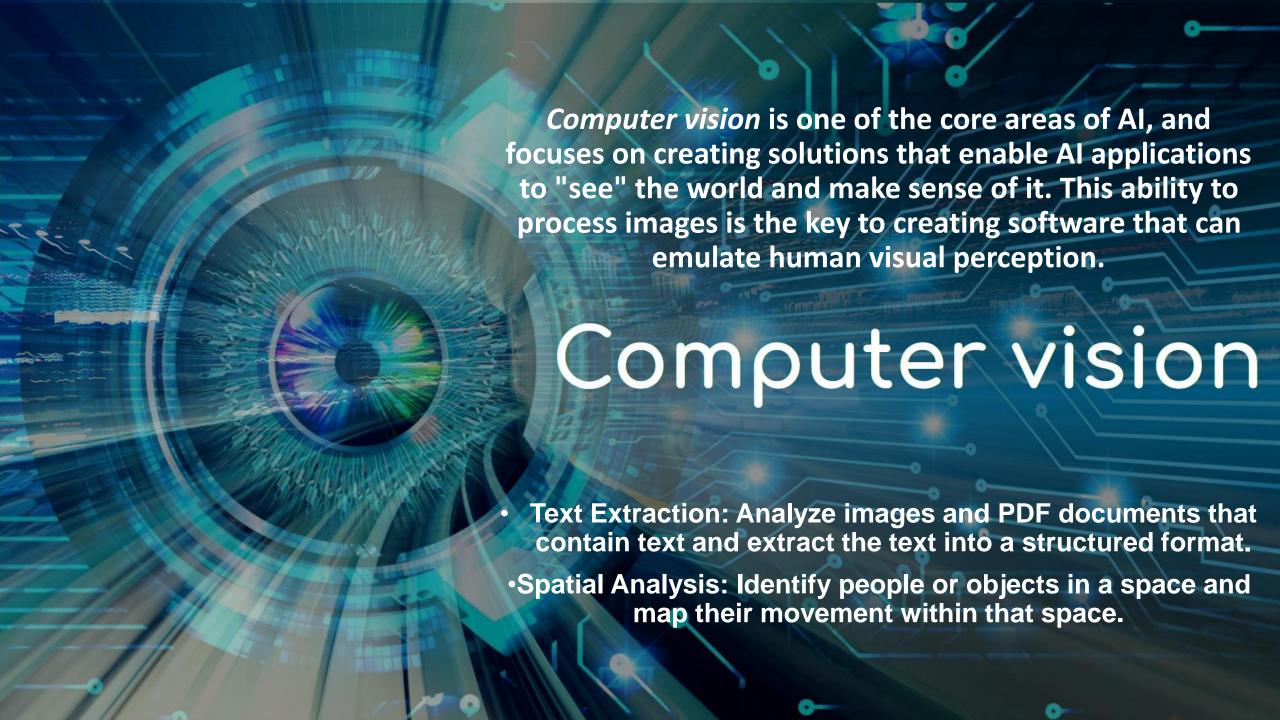
PROJECT FEATURES

Theory of mind

Computer vision

Voice assisted technology NLP and voice systems.





VOICE ASSISSTED TECHNOLOGY

- Al-voice-assisted technologies will enable individuals with disabilities to access information much easier, all just by speaking to their devices.
- Through simple voice commands they can control nearly every aspect of their home from setting alarms and reminders, playing music, making to-do lists, providing real-time information, cleaning
 - Al voice assisted technology can be very helpful for people living with disabilities as it will assist them in moving around the home, and support more independent living.

Natural language processing (NLP) is the area of Al that deals with creating software that understands written and spoken language. With the help of NLP we will create a software called Text Summarisation.

Natural Language Processing

- People who suffer with dyslexia, may find difficult read the context that consist long paragraphs.
- This difficulty can be solved by developing a module, using natural language processing which has a weighted dictionary which ranks the words according to the weightage and summary the whole context into shorter one and give them a pictorial representation if need.

THANKYOU

