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## WHAT IS AI?

Artificial Intelligence is the ability for a computer to think, learn and simulate human mental processes, such as perceiving, reasoning, and learning.

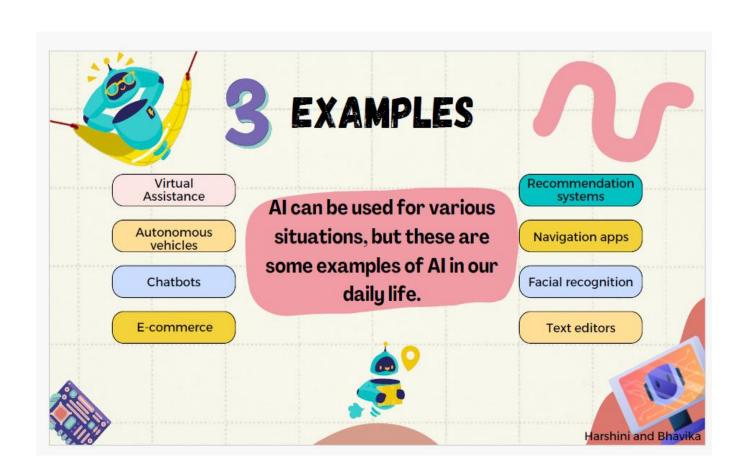
It can also independently perform complex tasks that once required human input.

# how does machine Learning Relate to Ai?

Although the terms
artificial intelligence (AI)
and machine learning are
frequently used
interchangeably,
(machine learning is a
subset of the larger
category of AI...)

Artificial intelligence signifies computers' general ability to mimic human thought while carrying out tasks in real-world environments

Machine learning implies
to the technologies and
algorithms that allow
systems to recognize
patterns, make decisions,
and improve themselves
through experience and
data.









Sophia is a realistic humanoid robot capable of displaying humanlike expressions and interacting with people. It's designed for research, education, and entertainment, and helps promote public discussion about AI ethics and the future of robotics.



# WHAT PROBLEMS CAN AI SOLVE?

- Cybersecurity → dectecting spam
- Healthcare → medical records
- Research → idea generation,
- Transportation → self driving cars



As shown above, AI can solve a LOT of problems. Let's explore a few on the next slide!

## USES OF AI

(ADVANTAGES OF AI)

### Image and facial recognition

- It can help make data safer and more secure.
- For example, face authentication can ensure that only the appropriate person has access to sensitive information that is intended specifically for them.

#### Medical diagnosis

- Provides more exact diagnoses, detects hidden patterns in imaging investigations, and predicts how patients will respond to specific medications.

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- This leads to better treatment strategies, fewer clinical errors, and more accurate diagnosis.

#### **Customer service**

- Customer service teams can get feedback from customers by using AI.
- For example, Alpowered information can provide agents with information on client intent, language, and sentiment so they are aware of how to approach an encounter.

#### Recommendation

#### systems

- Al content recommendations help people stay engaged and informed.
- For example,
   Virtual(Siri and Alexa.),
   Personalized content
   on streaming
   platforms, Apps that
   suggest best routes
   based on traffic.

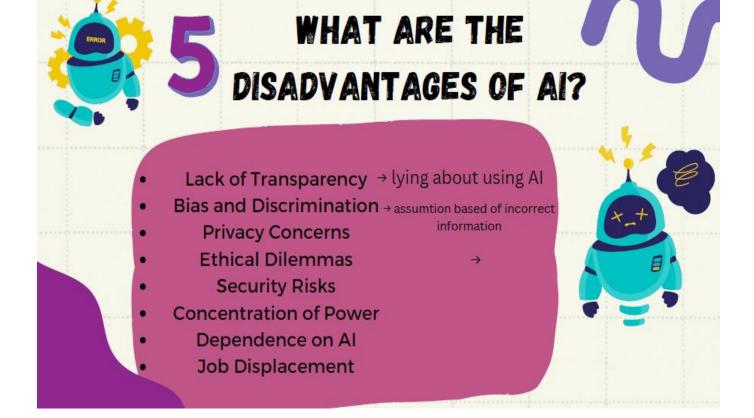


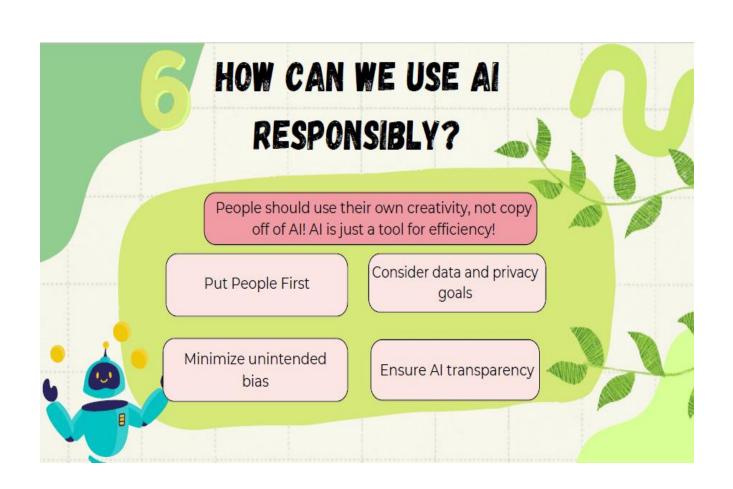












### RESPONSIBLE AI USE

Al can help do repetitive work for humans, but humans should still be prioritized.

Create a culture that utilizes creativity, empathy, and dexterity from humans and Al for increased efficiency.

Businesses should adopt strong security measures, limit access to sensitive data, and anonymize data whenever possible to secure data privacy with AI and ML technologies.

There needs to be fairness in AI which entails identifying and eliminating discrimination while also encouraging diversity and inclusion. This is can be done by using training models with equal representation.

Develop explainable AI that is visible across processes and functions to generate trust among employees and customers. Provide examinability, comprehension, and traceability.

### **Applications of Artificial Intelligence**



