

# Introduction to AI

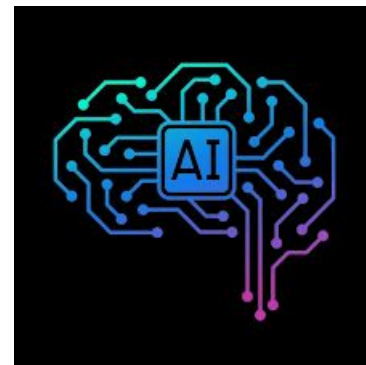




# Introduction to AI

- AI = Artificial Intelligence
- Makes computers smart, like humans
- Examples of AI in daily life:

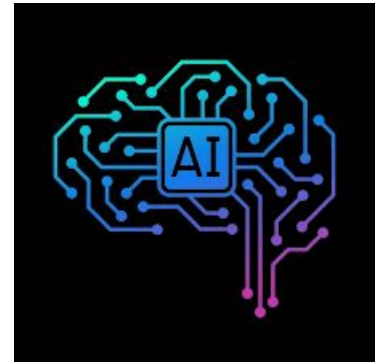
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# Introduction to AI

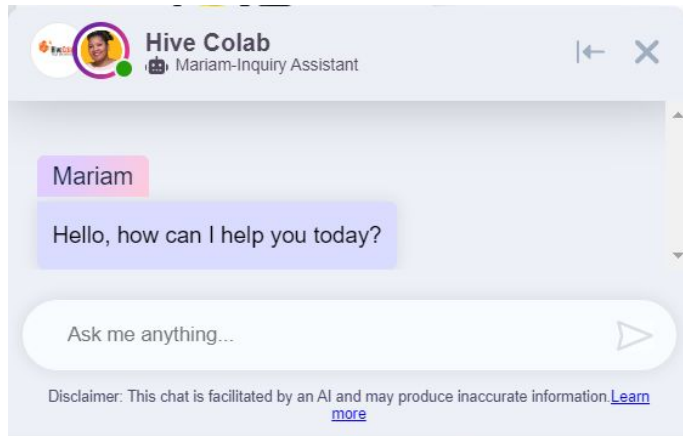
- AI = Artificial Intelligence
- Makes computers smart, like humans
- Examples of AI in daily life:
  - Virtual assistants: Siri, Google Assistant
  - Youtube: Video recommendations
  - Email: Spam filters
  - Language Translation
  - Customer Service Chatbots

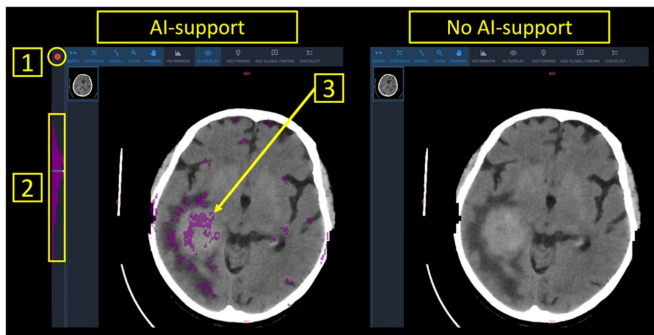




# Why AI Matters

- AI is the future, just like the internet was
- AI is everywhere: healthcare, finance, education, entertainment
- Learning AI is a valuable skill for future jobs
- Knowing AI is like knowing how to use the internet

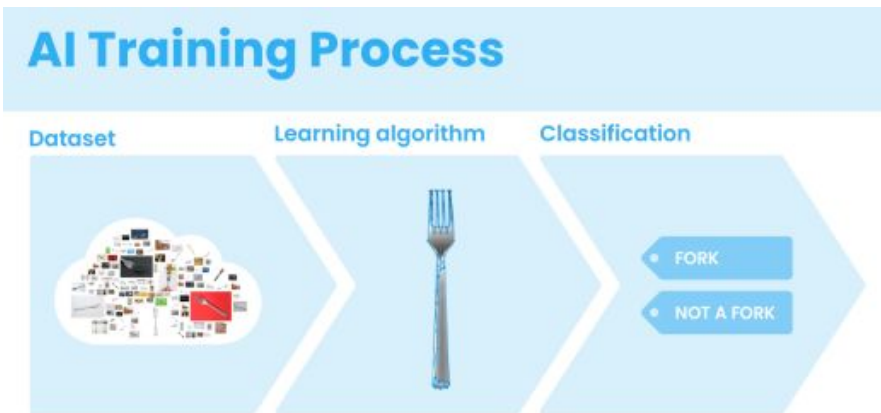






# How AI Learns

- AI learns from data, like humans learn from experience
- Example: How AI recognizes images (e.g., cats vs. dogs)
- Recognizes patterns, e.g., AI learns to recognize cats by seeing many cat photos
- Difference from traditional programming:
  - Traditional: Rule-based
  - AI: Learning-based



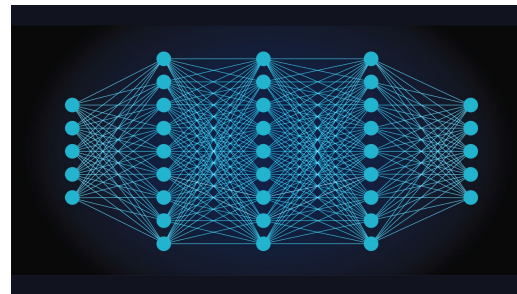
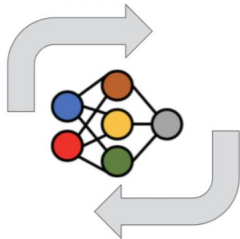
# How AI Works Behind the Scenes

- AI uses data to learn and make decisions
- Machine Learning: AI learns from examples, improves over time
- Deep Learning: A type of machine learning that uses neural networks, inspired by the human brain
- Importance: AI gets better as it processes more data

TRAINING DATA



MODEL



# Types of AI

- Narrow AI: AI that does one specific task (e.g., virtual assistants, recommendation systems)
- General AI: AI that can perform any intellectual task a human can do (still in the future)
- Examples of Narrow AI:
  - Self-driving cars
  - Facial recognition
  - Language translation (e.g., Google Translate)

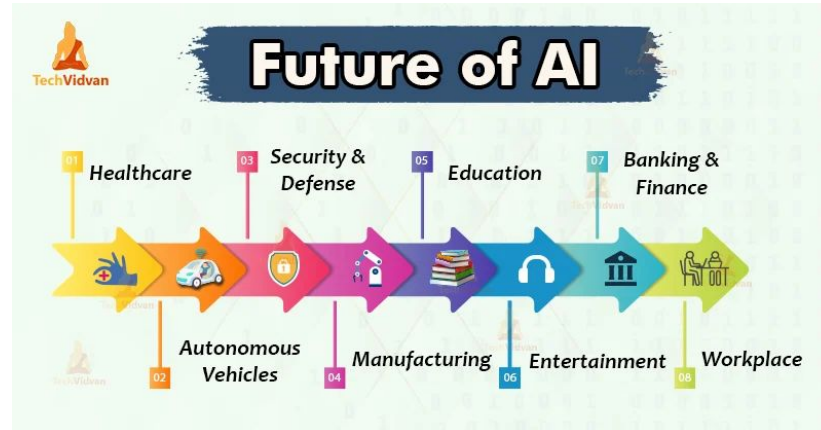






# The Future of AI

- AI in everyday life: More integrated into smart homes, personal assistants
- AI in Transportation: Autonomous vehicles becoming common
- AI in Robotics: Robots performing more complex tasks, working alongside humans
- AI in Entertainment: Personalized content creation (e.g., music, videos, games)
- AI and Creativity: AI generating art, music, and creative content



A



B



A



B











A

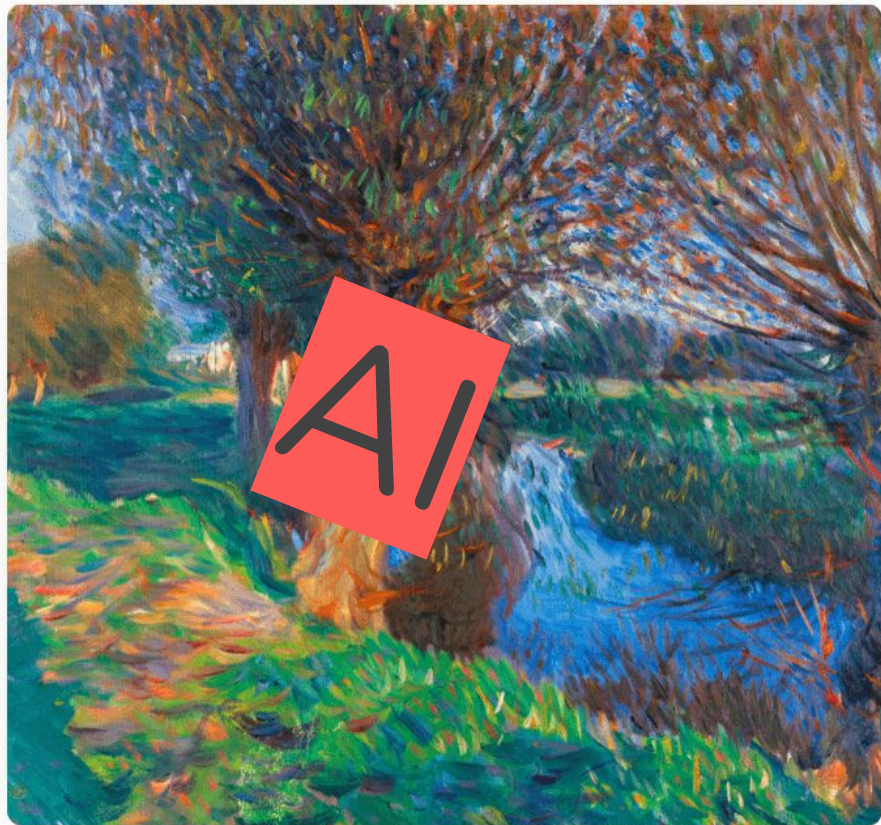


B





A



B









# Recap

- AI is everywhere and is becoming more important every day
- Understanding AI will be crucial for all future careers
- AI can help solve complex problems in many fields
- It can help you with your studies

**AI is the future—be part of it!**

