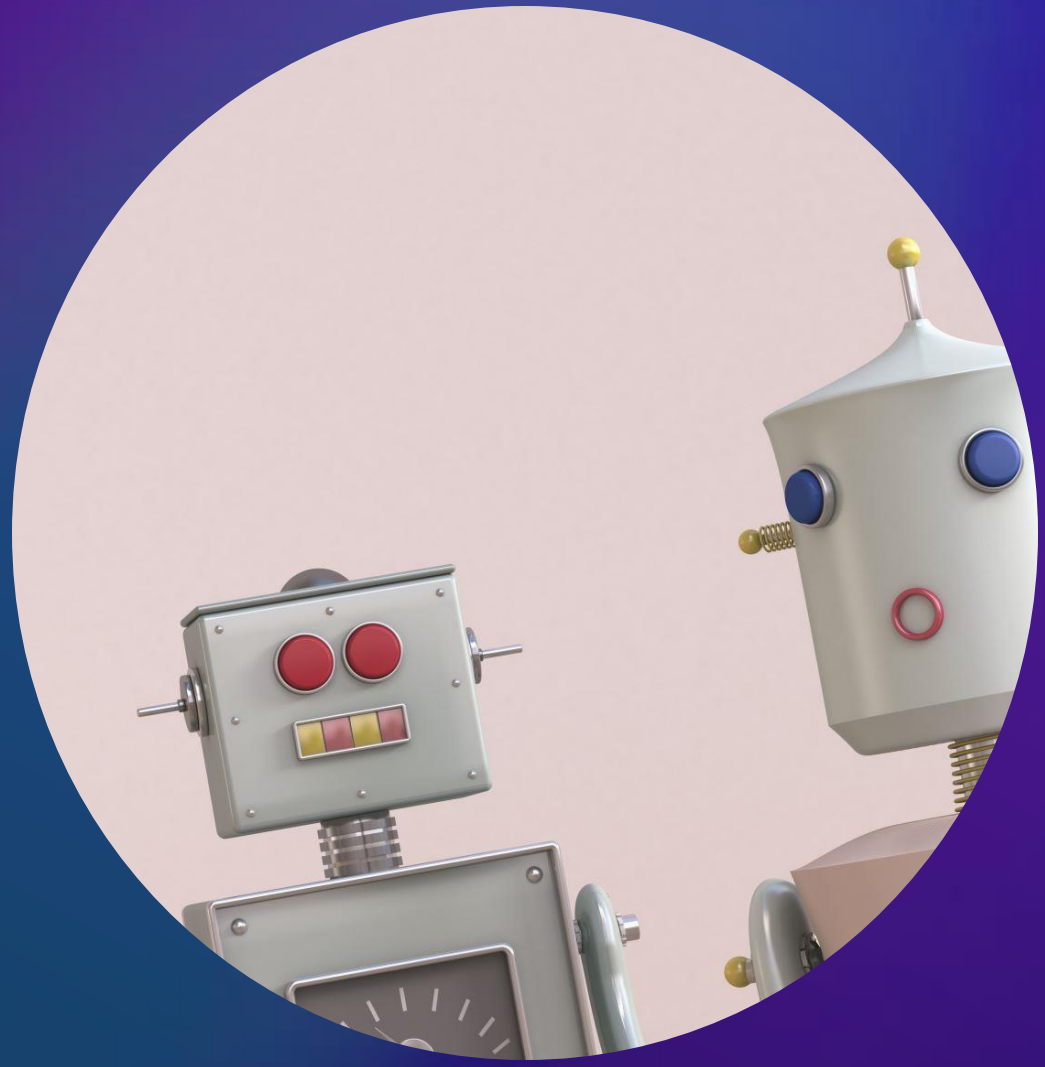
AI/ML

UNLOCKING THE POTENTIAL OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



DELVE INTO THE FASCINATING WORLD OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, POWERED BY MICROSOFT'S CUTTING-EDGE SOLUTIONS.

- What is AI?
- What is ML?
- Microsoft's AI/ML Ecosystem
- Azure Machine Learning
- Azure Cognitive Services

- Let's begin our journey into the realm of intelligent technologies.

WHAT IS AI?

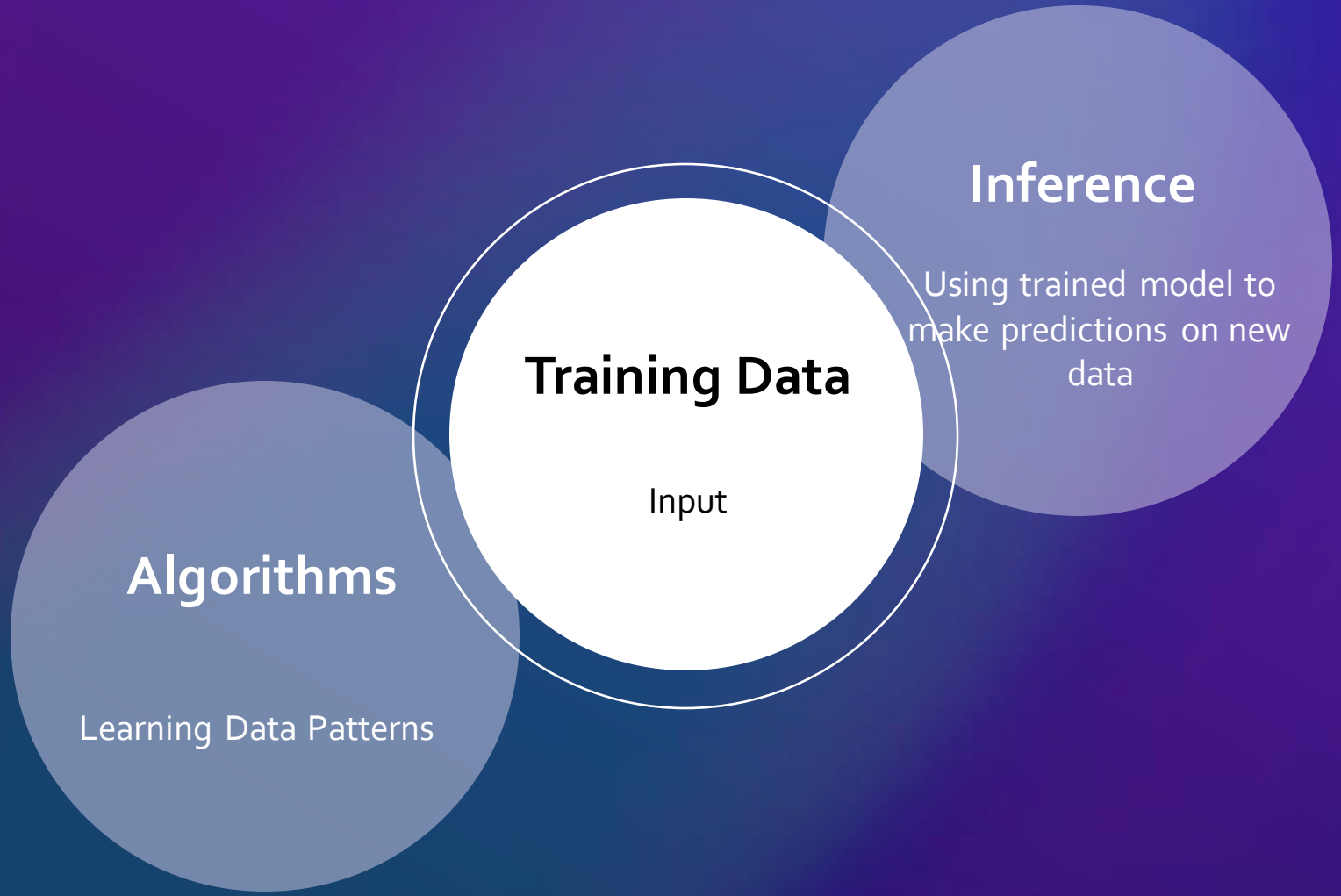
- Artificial Intelligence (AI) refers to the simulation of human intelligence processes by machines, particularly computer systems.
- It encompasses a wide range of capabilities, including:

1. Machine Learning, Reasoning, Problem Solving,Perception and Natural Language Processing
2. AI enables computers to perform tasks that typically require human intelligence, such as understanding language, recognizing images, and making decisions.
3. AI applications Include -> Virtual Assistants, Image Recorgnition and Chatbots

BHAVYA SHINGARI

WHAT IS MACHINE LEARNING?

It is a subset of AI that focuses on development of algorithms and statistical models that enables computer to learn and make predictions based on data.



MICROSOFT'S AI/ML ECOSYSTEM

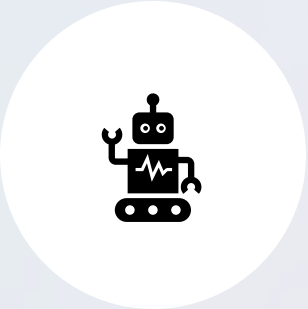
Microsoft offers a comprehensive ecosystem of tools and services for AI/ML development, deployment and management

AZURE MACHINE LEARNING

AZURE COGNITIVE SERVICES

AZURE DATABRICKS

POWER BI



POWER AUTOMATE

MICROSOFT COGNITIVE TOOLKIT

AZURE MACHINE LEARNING

Cloud Based Platform that enables data scientists and developers to build, train and deploy machine learning solutions

- Automated Machine Learning
- Visual Interface
- Scalability
- Integration

AZURE COGNITIVE SERVICES

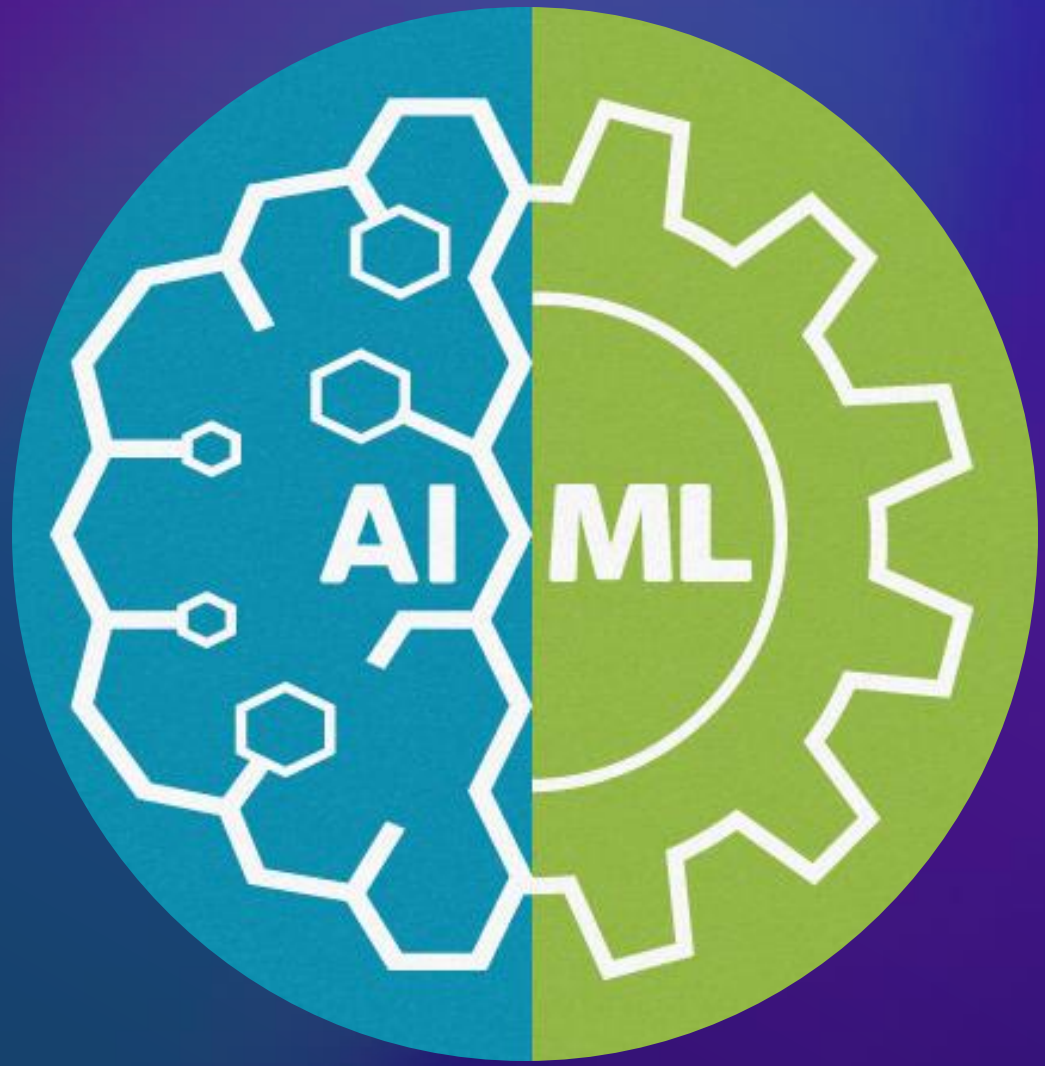
- Azure Cognitive Services offers a collection of AI services that enable developers to add intelligent capabilities to their applications without requiring expertise in machine learning or data science.
- Vision: Image Recognition, anomaly detection, object detection and content moderation
- Speech: Speech to text, text to speech, speaker recognition and sentiment analysis
- Language: Natural language processing, text analysis, translation and language understanding
- Decision: Personalization and recommendation systems

FUTURE TRENDS

Explore emerging trends and future directions in AI/ML with Microsoft technologies

1. Advancements in Deep Learning
2. Edge Computing and IoT integration
3. Industry Specific Solutions

MICROSOFT AI/ML SOLUTIONS



THESE WERE THE TECHNOLOGIES MOST COMMONLY USED FOR AI/ML