

# ML

## Lecture Summary

- Machine Learning (ML) is a branch of artificial intelligence (AI) focused on building systems that can learn from and make decisions based on data
- ML models analyze patterns in data to improve their performance over time
- ML is transforming industries by enabling smarter and faster decision-making
- Applications include:
  - Healthcare: Disease prediction, personalized medicine, and drug discovery
  - Finance: Fraud detection, stock price forecasting, and risk assessment
  - Retail: Recommendation systems and inventory management
  - Transportation: Autonomous vehicles and traffic prediction