Title: Introduction to Artificial Intelligence

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are

programmed to think and act like humans. It is a broad field of computer science concerned with

building smart machines capable of performing tasks that typically require human intelligence.

Core Areas of AI:

1. Machine Learning (ML)

2. Natural Language Processing (NLP)

3. Computer Vision

4. Robotics

5. Expert Systems

Applications:

- Healthcare: Predictive diagnosis, personalized treatment

- Finance: Fraud detection, algorithmic trading

- Transportation: Self-driving cars, traffic prediction

- Education: Personalized tutoring, automated grading

Conclusion:

All is rapidly transforming industries by automating tasks, improving decision-making, and enabling new types of interaction. However, ethical and societal challenges must be addressed to ensure responsible development.