

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

# Artificial Intelligence

By: Sebastian Wilson

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## Introduction

AI is no longer science fiction. It's writing our emails, recommending our next song, and even diagnosing diseases

AI refers to computer systems that perform tasks typically requiring human intelligence, like decision-making, learning, and perception



# Brief History of AI

1950s: Alan Turing and the Turing Test

1956: Dartmouth Conference – birth of AI as a field

Winters and revivals: Early enthusiasm, setbacks, and modern resurgence with machine learning



# How AI Works

Machine Learning: Training data, algorithms, and models

Neural Networks & Deep Learning: Inspired by the human brain

Natural Language Processing (NLP): Understanding human language (e.g., ChatGPT)

Examples of AI in action:

Google Translate

Facial Recognition

Predictive text

Self-driving cars

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# Applications of AI in the Real World

Healthcare: Diagnosing illnesses, drug discovery

Finance: Fraud detection, algorithmic trading

Transportation: Autonomous vehicles, traffic prediction

Entertainment: Streaming recommendations, content creation (AI-generated music, art)

Education: Personalized tutoring, language learning



## Ethical and Social Considerations

Bias and fairness in algorithms

Job automation and workforce displacement

Surveillance and privacy concerns

AI alignment and existential risk



# The Future of AI

General AI vs. Narrow AI

Collaborative human-AI systems

Calls for regulation and responsible development

Concluding thought: “AI is a tool, how we use it will define its impact on society.”



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