

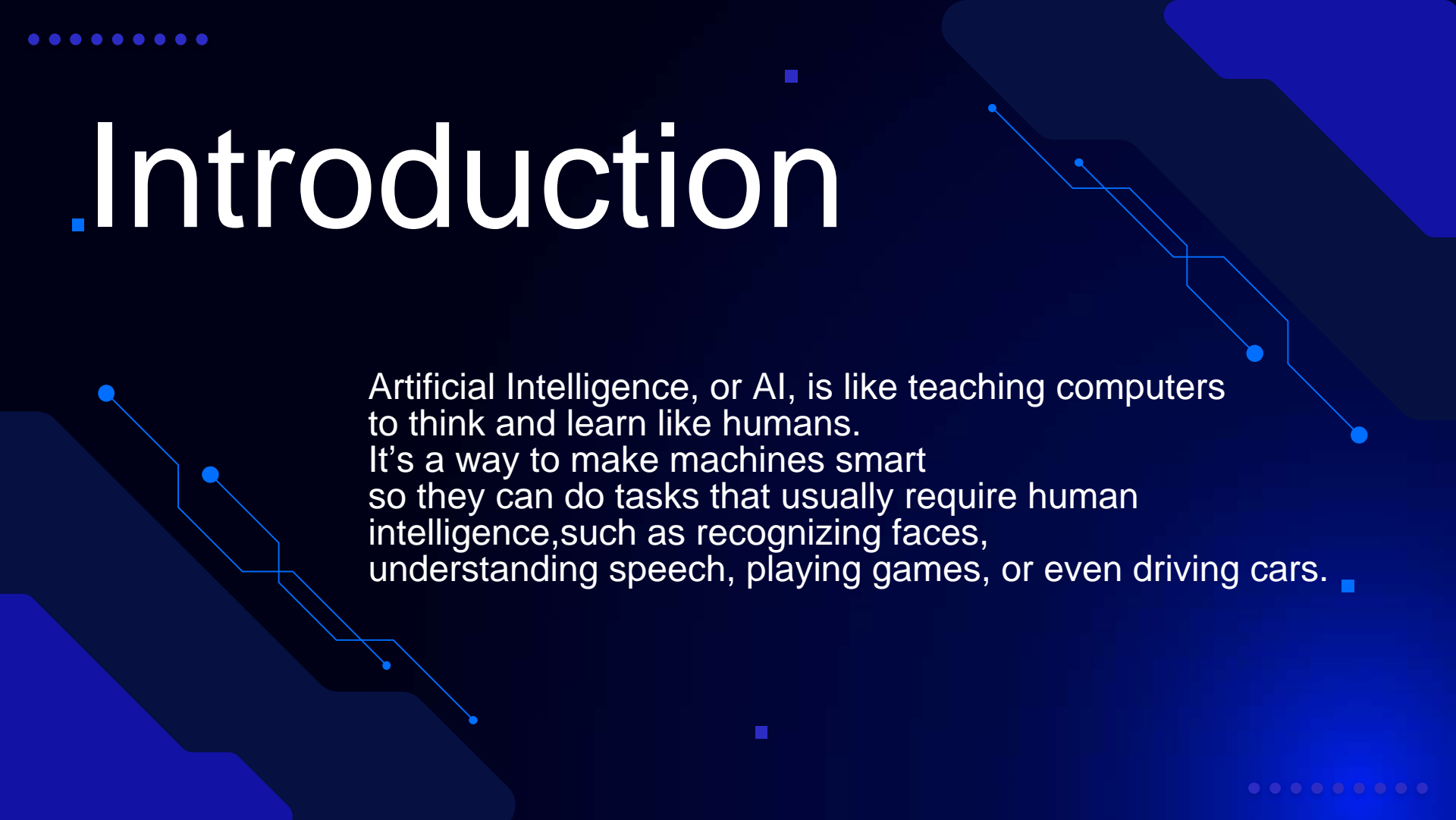


# Abhijeet's PPT on AI Applications

(Artificial Intelligence)

The background is a dark blue gradient with abstract geometric shapes and lines. In the top left, there is a horizontal row of small blue dots. In the top right, a blue line with circular nodes connects several points, forming a jagged path. In the bottom right, another horizontal row of small blue dots is visible. The word "Introduction" is written in a large, white, sans-serif font, preceded by a small blue square bullet point.

# ■ Introduction

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Artificial Intelligence, or AI, is like teaching computers to think and learn like humans. It's a way to make machines smart so they can do tasks that usually require human intelligence, such as recognizing faces, understanding speech, playing games, or even driving cars. ■

The graphic features a dark blue background with various geometric and abstract elements. In the top left, there is a series of parallel diagonal lines. In the top right, a bright blue shape is partially visible. On the right side, there are white lines that resemble circuit traces or data paths, some ending in small circles. A small blue square is located near the top center. Another small blue square is on the left side, near the 'AI' text. A small black square is on the right side, near the circuit lines. At the bottom left, there are more white circuit-like lines. At the bottom right, there is a series of parallel diagonal lines, similar to the top left. The text 'AI' is enclosed in a white square, and the word 'Applications' is written in a large, white, sans-serif font to its right.

AI

Applications

# Healthcare

## \*Diagnosing Diseases:

#Analyzes medical images (X-rays, MRIs) to detect conditions like cancer.

#Helps diagnose diseases using patient data.

## \*Personalized Treatment:

#Suggests tailored treatments based on genetics, history, and lifestyle (precision medicine).

## \*Predicting Health Risks:

#Predicts risks (e.g., heart attacks) using data like blood pressure and lifestyle.

## \*Virtual Assistants & Chatbots:

#AI chatbots answer questions, schedule appointments, and provide health advice.

## \*Drug Discovery:

#Speeds up finding new drugs or repurposing existing ones.

## \*Robotic Surgery:

#Assists surgeons with precise, minimally invasive procedures.

## \*Monitoring Patients:

#Wearables and AI tools track health (e.g., heart rate) and alert doctors to issues.

# Finance

## Fraud Detection:

AI analyzes transactions to spot unusual patterns and prevent fraud.

## Algorithmic Trading:

AI makes fast, data-driven trading decisions to maximize profits.

## Personalized Banking:

Offers tailored financial advice and product recommendations.

## Risk Management:

Predicts risks (e.g., loan defaults) using data analysis.

## Customer Support:

AI chatbots handle inquiries, account management, and support 24/7



# Education

## Personalized Learning:

Adapts lessons to individual student needs, pace, and learning styles.

## Automated Grading:

AI grades assignments and exams quickly, saving teachers time.

## Intelligent Tutoring Systems:

Provides one-on-one tutoring and instant feedback to students.

## Administrative Support:

Automates tasks like scheduling, attendance tracking, and resource management.

## Interactive Learning Tools:

Uses chatbots, virtual assistants, and gamification to engage students.

# Cost Reduction

## Automation of Repetitive Tasks:

AI automates manual, repetitive tasks (e.g., data entry, customer support), reducing labor costs.

## Predictive Maintenance:

AI predicts equipment failures before they happen, minimizing downtime and repair costs.

## Optimized Resource Allocation:

AI analyzes data to optimize the use of resources like inventory, energy, and workforce.

## Streamlined Supply Chains:

AI improves demand forecasting, inventory management, and logistics, reducing waste and costs.

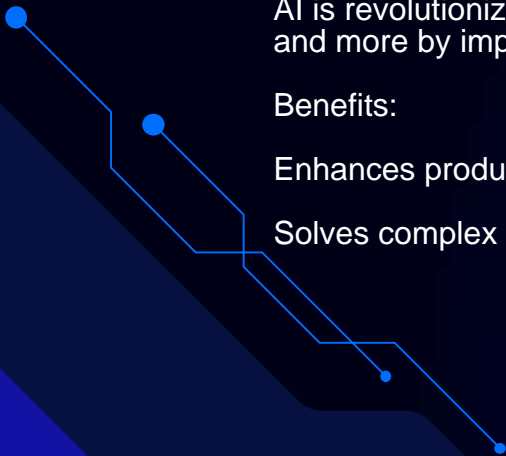
## Fraud Detection:

AI identifies fraudulent activities in real-time, saving money lost to scams or errors.





# Conclusions



## Transformative Impact:

AI is revolutionizing industries like healthcare, finance, education, and more by improving efficiency, accuracy, and decision-making.

## Benefits:

Enhances productivity, reduces costs, and enables personalized experiences.

Solves complex problems and automates repetitive tasks.

## Challenges:

Privacy, security, and ethical concerns.

Risk of bias, job displacement, and over-reliance on technology.





# Thank you!

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