

MACHINE LEARNING DRIVEN DATA ANALYSIS

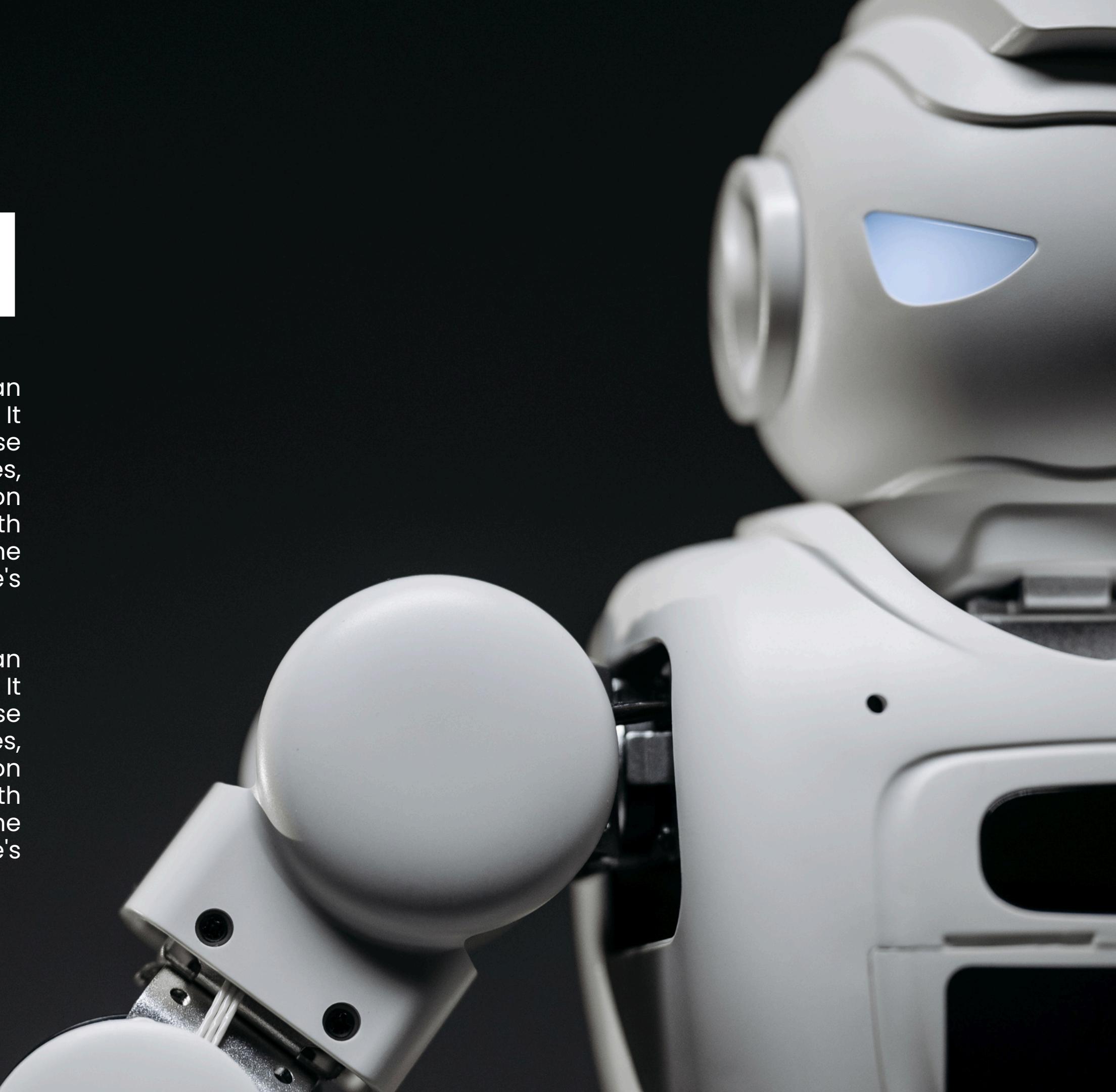
Presented by

**MD Rufsan Jani Shanto
ID : 221-35-1064**

INTRODUCTION

A presentation is a structured delivery of information to an audience, designed to inform, persuade, or entertain. It typically involves a speaker conveying a clear and concise message, often supported by visual aids such as slides, charts, or videos. The presentation's effectiveness relies on the presenter's ability to engage the audience through both verbal and non-verbal communication, ensuring the content is well-organized and tailored to the audience's interests and knowledge level.

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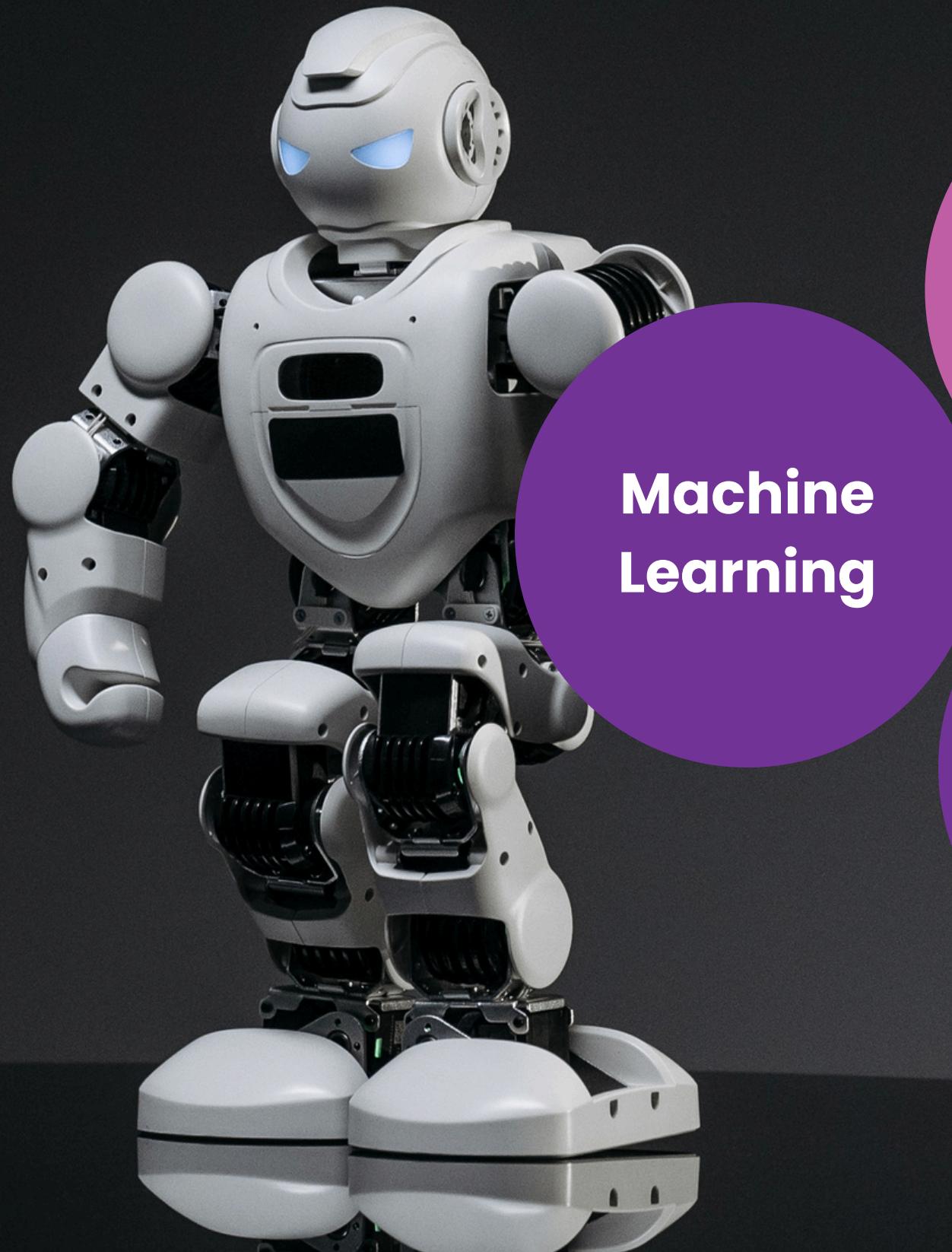
WHAT IS ARTIFICIAL INTELLIGENCE?

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KEY CONCEPT



**Machine
Learning**

**Neural
Network**

**Natural
Language
Processing**

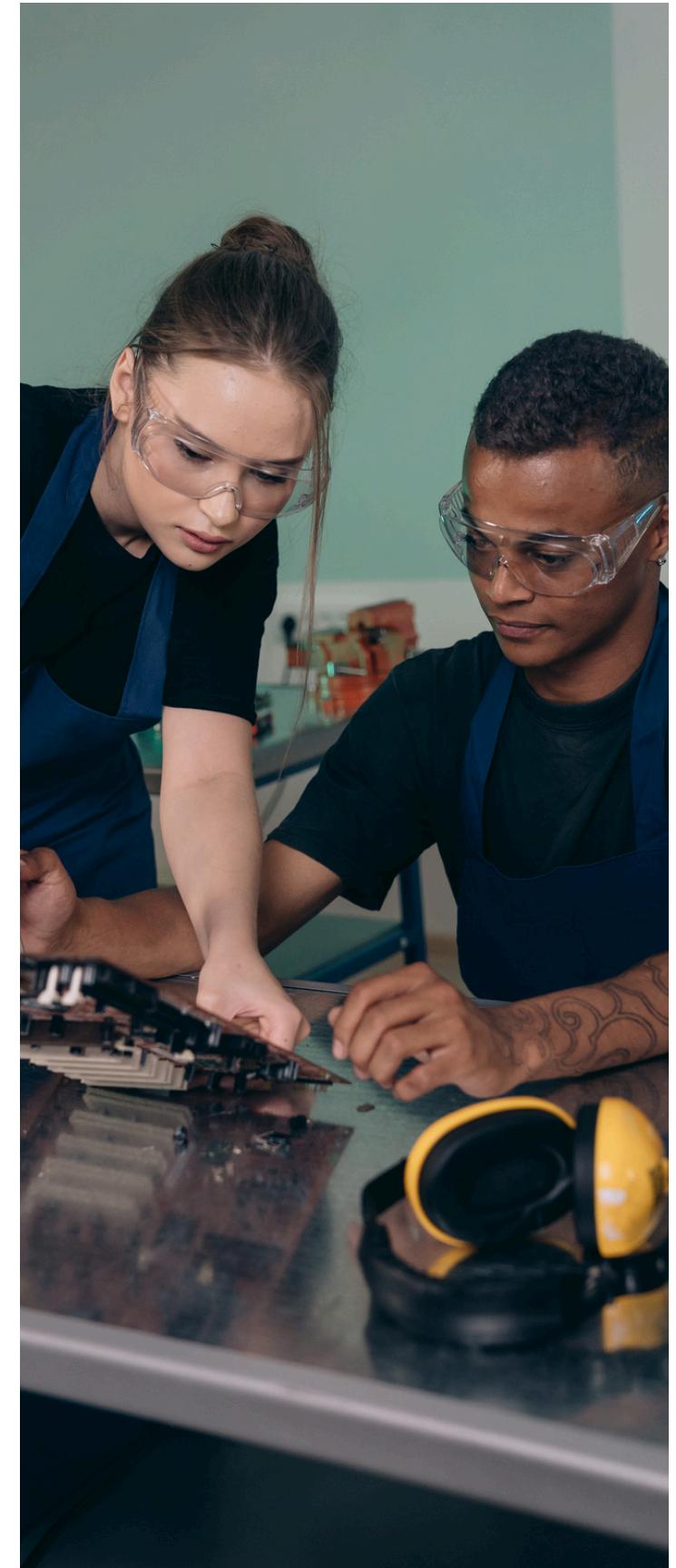
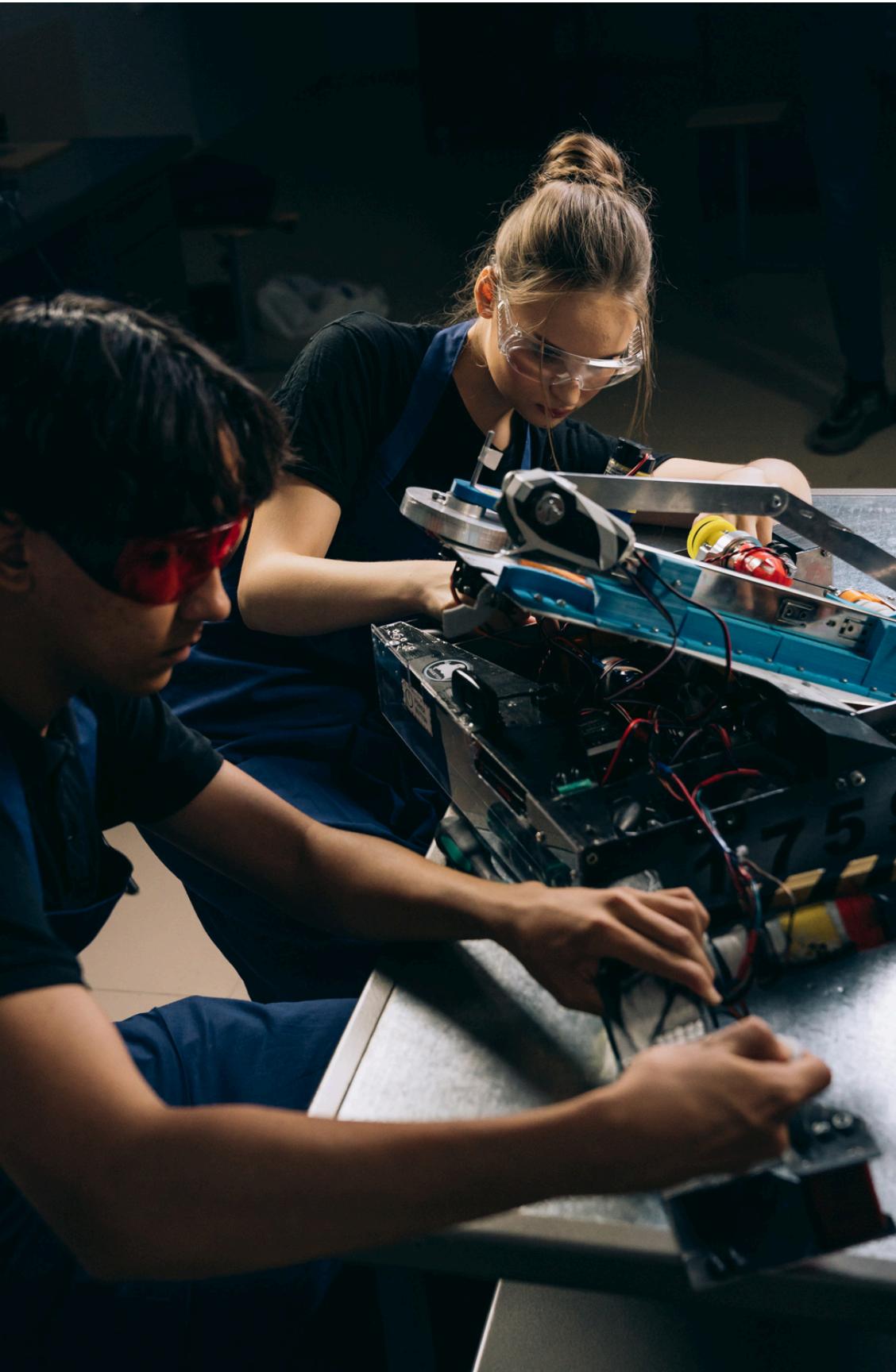
**Computer
Vision**

**Reinforcement
Learning**

Ethical AI

WHAT IS MACHINE LEARNING?

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TYPES OF MACHINE LEARNING?

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Supervised Learning

Unsupervised Learning

Reinforcement Learning

ROLES OF DATA IN MACHINE LEARNING

Training Machine Learning Models

Testing and Evaluation

Future Engineering

Anomaly Detection

Data Augmentation



CASE STUDY SAMPLES



Predicting Disease Outcomes



Algorithmic Securities Trading



Personalized Recommendations & Cart Management



Predictive Tools Maintenance



Autonomous Vehicles (Hybrid)



Energy Consumption Optimization

REAL WORLD APPLICATION

2025

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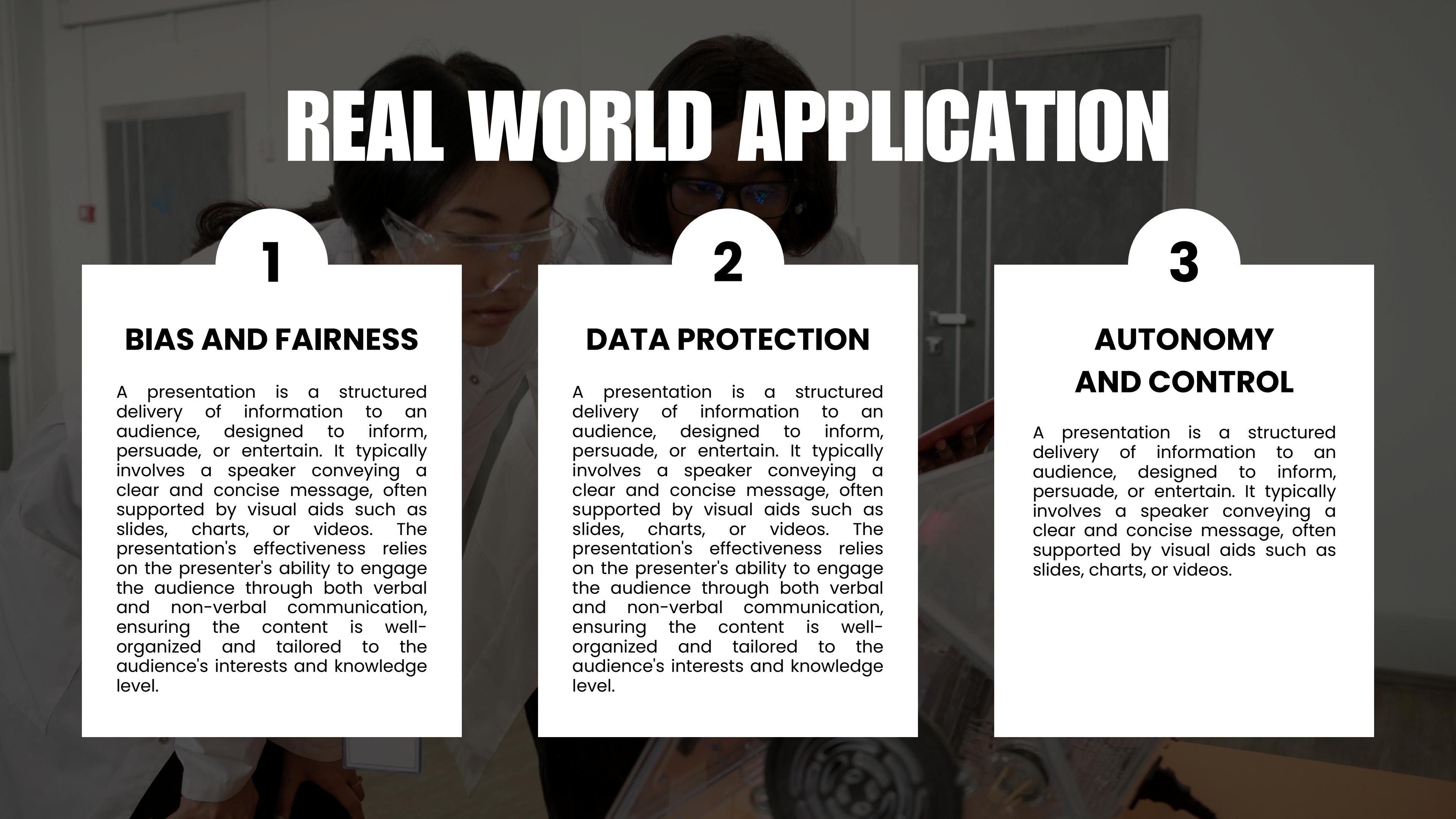
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REAL WORLD APPLICATION



1

BIAS AND FAIRNESS

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DATA PROTECTION

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3

AUTONOMY AND CONTROL

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DEPLOYMENT AND INTEGRATION

DATA PREPARATION

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MODEL DEVELOPMENT

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MODEL EVALUATION

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QUESTIONS AND ANSWER

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THANK YOU

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