



# Oracle Cloud Infrastructure

## Introduction to AI

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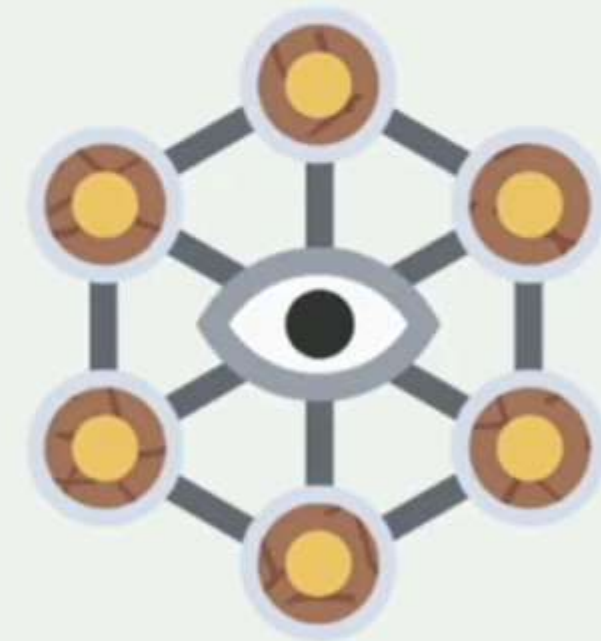
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# What is Artificial Intelligence?

Ability of machines to mimic the cognitive abilities and problem-solving capabilities of human intelligence





# Human Intelligence

Learns new skills through observation

Thinks abstractly and reasons

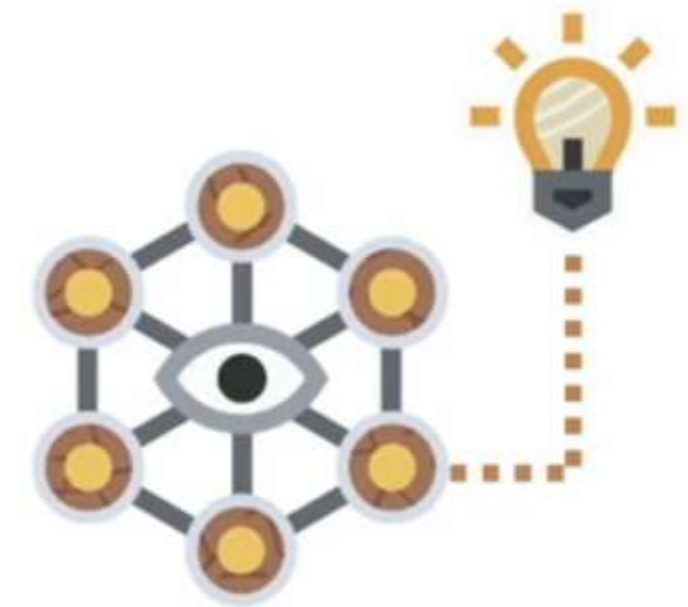
Communicates using a language and non-verbal cues

Handles complex situations in real time

Plans short and long term

Creates art, music, and inventions

If we can replicate any of these capabilities in machines, that is **Artificial General Intelligence (AGI)**.



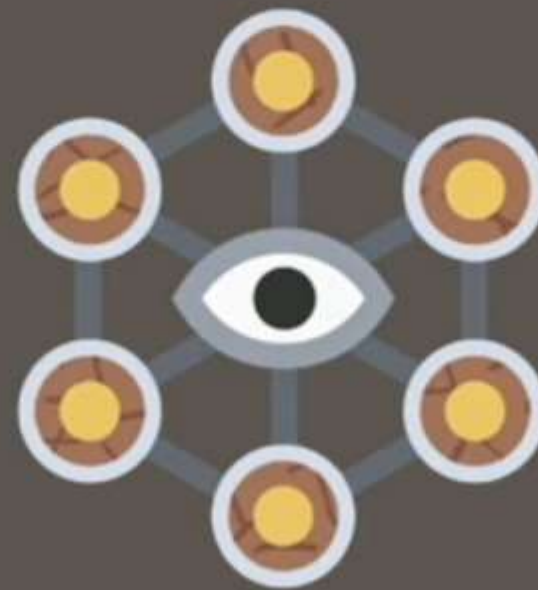
When we apply AGI to solve problems with specific, narrow objectives, we call it **Artificial Intelligence (AI)**.

# AI Examples

Classifying  
images



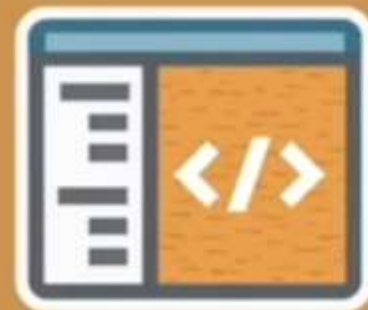
AI is all  
around us!



Spam mail  
classification



Writing  
computer  
language code



Predicting  
old car  
prices



# AI Terminology



**Machine Learning  
(ML)**



**Deep Learning  
(DL)**



**Data Science  
(DS)**



# Why do we need AI?

## Automation and Decision Making

Approve a credit card or loan.

Process insurance claims.

Recommend products to customers.

Detect fraudulent transactions.

Classify documents and images.



## Creative Support

Create content.

Write stories and poems.

Provide designs.

Share code.

Generate ideas.

Crack jokes.





# AI Domains and Examples

Language  
Vision  
Speech

Product Recommendations

Anomaly Detection

Learn by Reward

Forecasting

Generate Content

