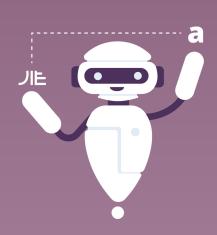


#### **Strong Al**

Strong AI, refers to AI systems that possess human-like cognitive abilities and can do any task

#### **Weak AI**

Weak AI, also known as narrow or specific AI, is designed for particular tasks or domains, lacking general intelligence.



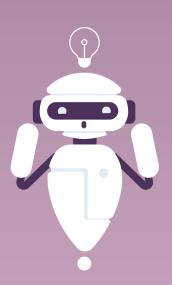


#### **Production System**

A production system is a rule-based framework for problem-solving. It consists of rules that conditionally trigger actions based on the current state

#### **Cellular Automata**

Cellular automata, are computational models composed of a grid of cells, each in a specific state





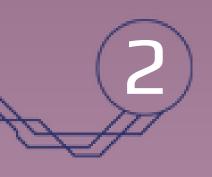
## FUNDAMENTALS OF AI

#### **Informed Search**

Informed search utilizes additional knowledge, to make more educated decisions during the search process.

#### **Uninformed Search**

Uninformed search, explores the search space without any additional information, making decisions based solely on the current state.



HIII.



#### **Expert Systems**

An expert system is designed to mimic the decision-making abilities of a human expert in a specific domain.

#### Applications

They excel at handling well-defined problems within a specific domain and have been valuable tools.

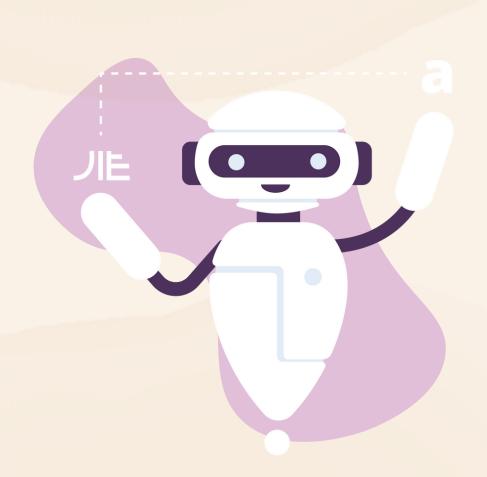


### Team 3

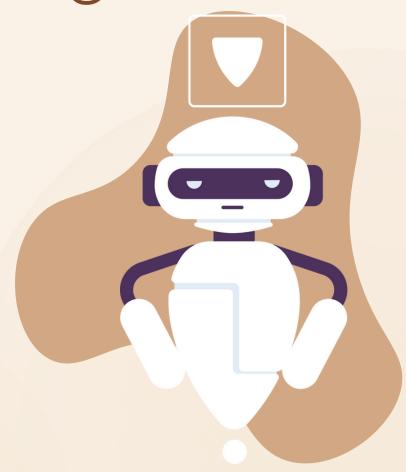
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# Fundamentals of

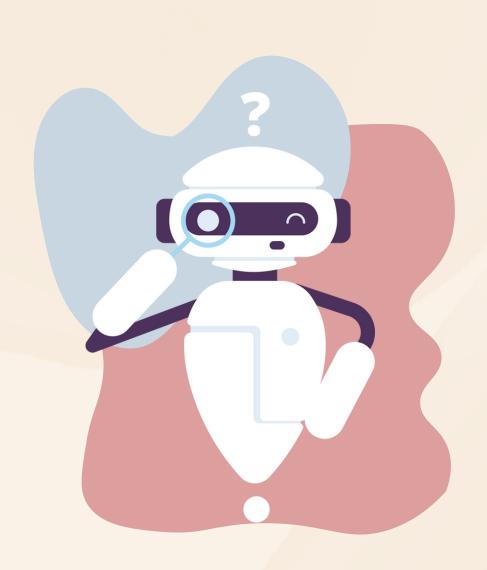
Artificial Intelligence



Al programs are extremely useful as **language translators** making us of NLP and other ML algorithms



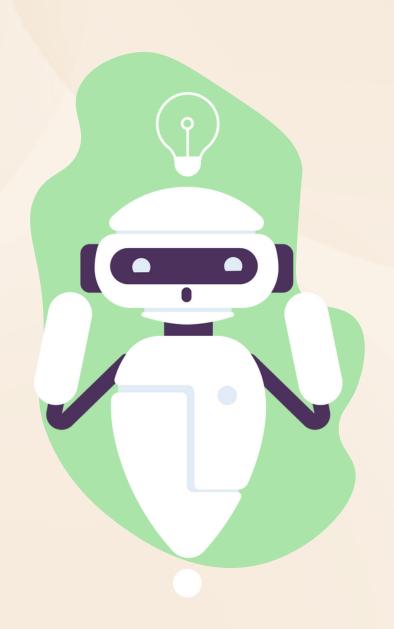
Al applications increase efficiency by **automating repetitive tasks** and processes.



Al Programs are capable of performing optimized search processes like

Informed and Uninformed

Searches



Production Systems are designed to mimic a human's decision making capability based on conditional triggers