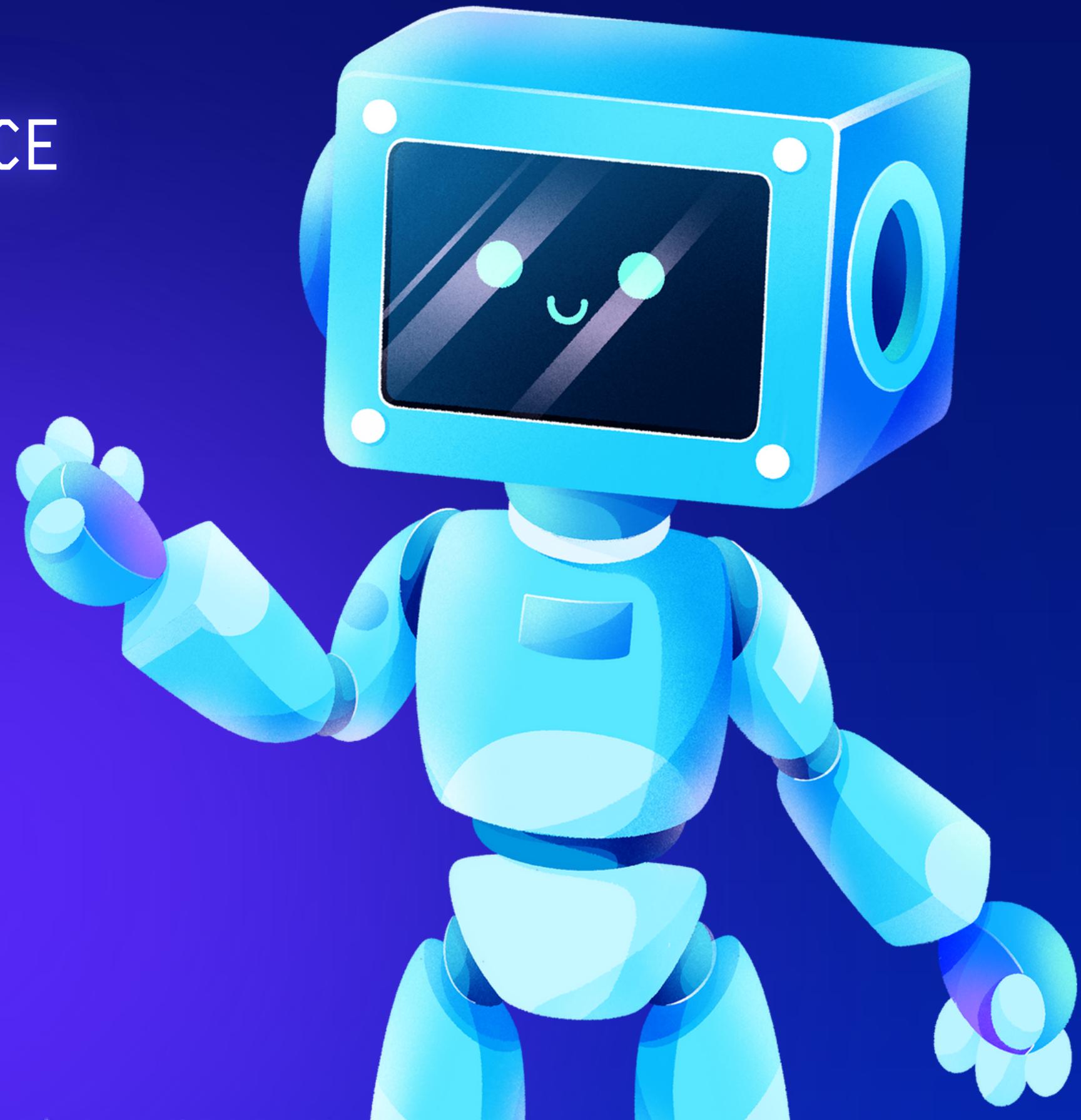


ARTIFICIAL INTELLIGENCE NONOGRAM ASSIGNMENT

Group 14



INTRODUCTION



brief about nonogram

Nonogram is a popular puzzle game that involves filling in cells on a grid .Nonogram puzzles come in various sizes and difficulties, ranging from small grids like 5x5 to larger ones like 15x15 or even more. They provide an enjoyable and challenging way to exercise your logical thinking skills and visual pattern recognition.

ASSIGNMENT SCOPE

- BACKTRACKING SEARCH
- TREE DECOMPOSITION





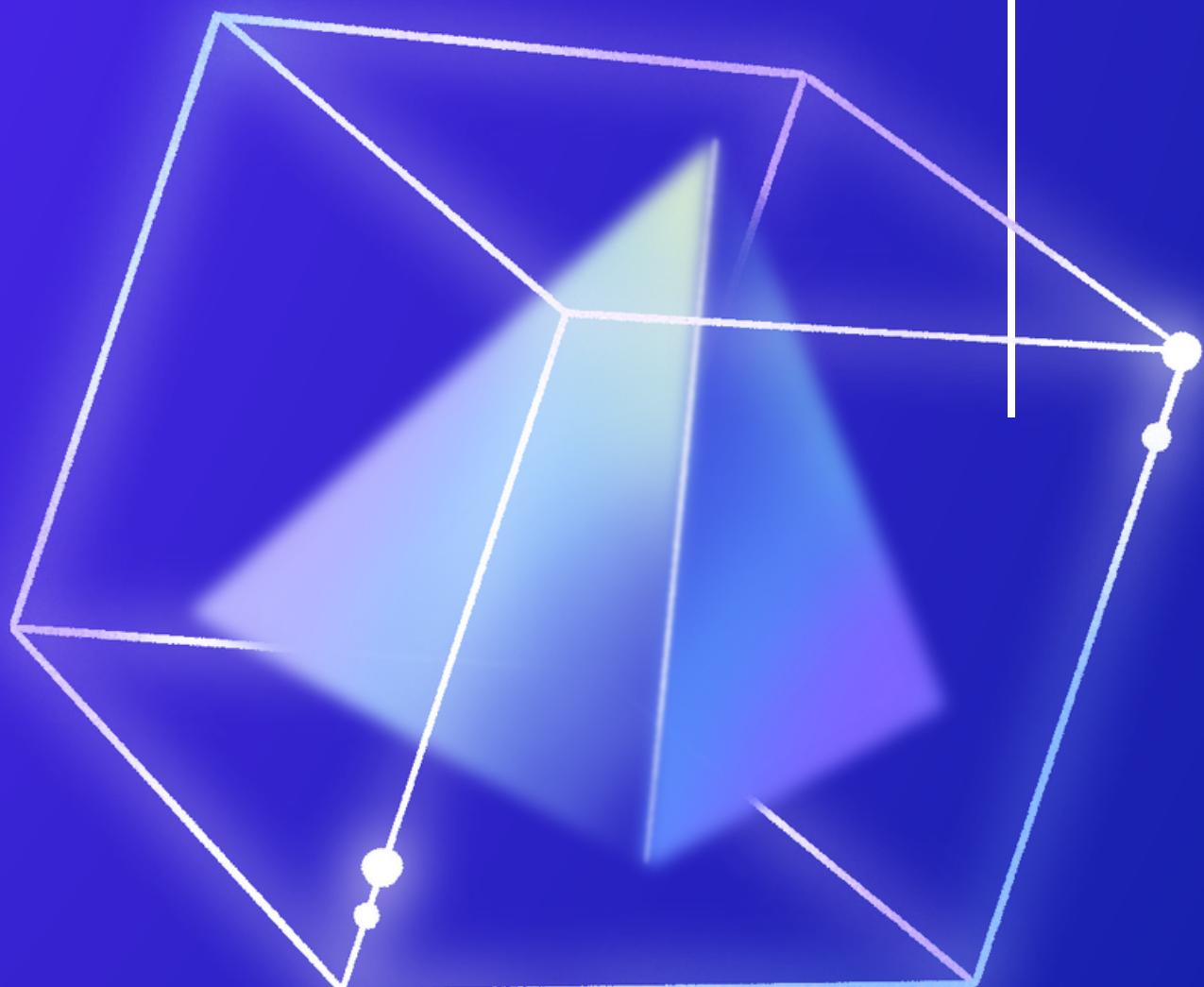
BACKTRACKING SEARCH

Understanding Backtrack Search At its core, Backtrack Search is a systematic method for exploring all possible solutions to a problem by incrementally building a solution and backtracking when a dead-end is reached. It is based on the concept of depth-first search, where we explore a problem space by traversing one path at a time until a solution is found or all paths have been exhausted



TREE DECOMPOSITION

Understanding Tree Decomposition At its core, Tree Decomposition is a method that represents a complex as a tree structure, where each node in the tree corresponds to a subset of vertices . The tree structure captures the relationships and dependencies between these subsets, allowing us to analyze the network in a more structured and systematic manner.



APPLICATIONS OF EACH . .

BACKTRACK SEARCH

- Puzzle Solving
- Graph Traversal
- Constraint Satisfaction Problems

TREE DECOMPOSITION

- Puzzle Solving
- Graph Algorithms
- Network Optimization
- Constraint Satisfaction Problems

THIS ASSIGNMENT
REPRESENTED BY..

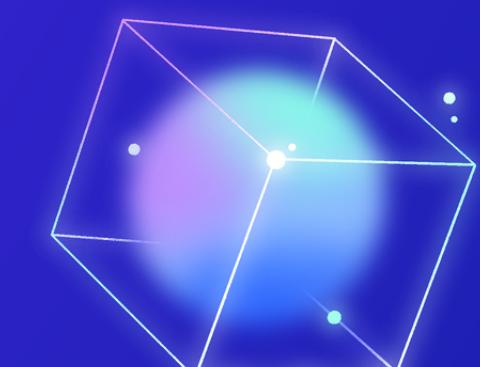
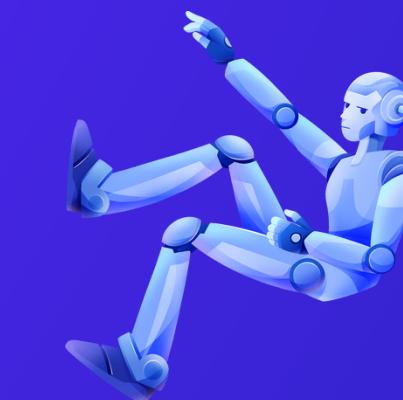
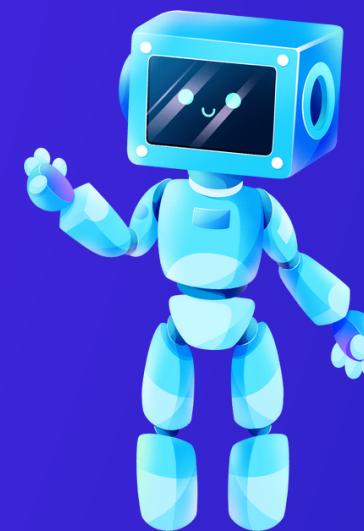
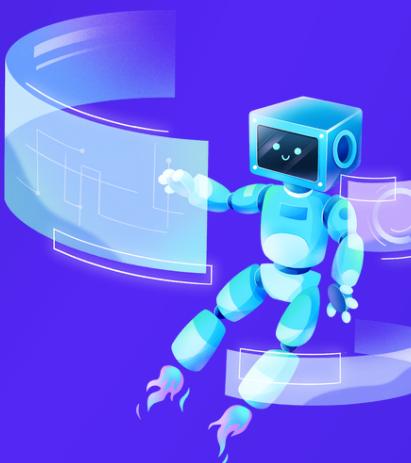
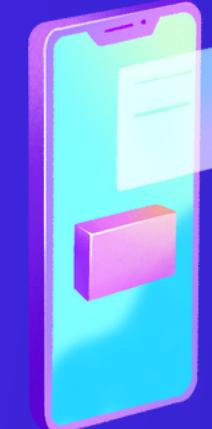
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THANK YOU!

