

PROJECT 2048 AI

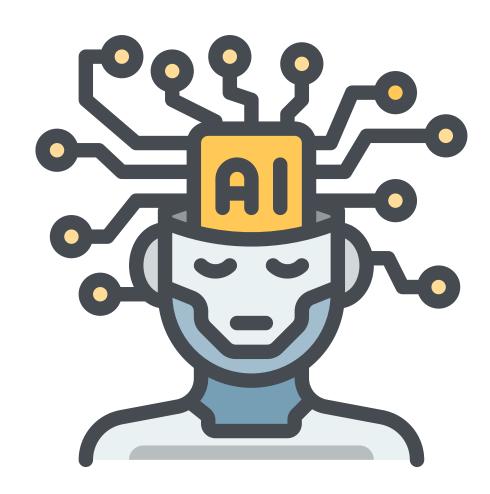
PRACTICUM PRESENTATION

About The Project

PROJECT OVERVIEW

This project revolves around the game 2048 and AI/ML. the game 2048 is a fairly simple and fun game and a bit tough to beat so we decided to build an AI to beat the game.

The objective of the game is to get the 2048 tile on the board which is not very easy so lets try to make an AI which beats the game and that too quickly.



About TheStrategy

THE GAME

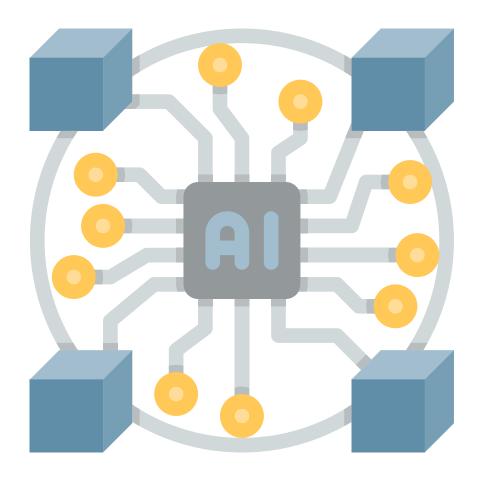
2048

2048 is an easy and fun puzzle game. Even if you don't love numbers you will love this game. It is played on a 4x4 grid using the arrows or W, A, S, D keys alternatively. Every time you press a key - all tiles slide in that direction and a new tile is added in one of the empty spots. Tiles with the same value that bump into one-another are merged. Although there might be an optimal strategy to play, there is always some level of chance involved.



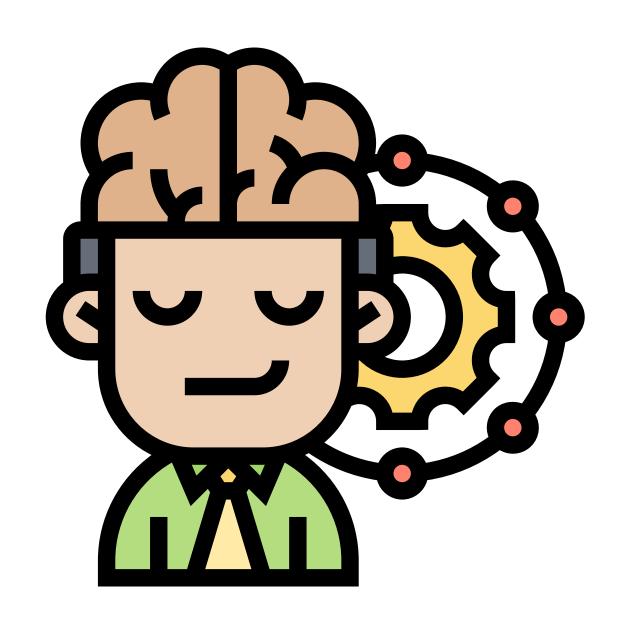
WHATS AI/ML BRIEF SUMMARY

Artificial intelligence (AI) is intelligence demonstrated by machines, as opposed to the natural intelligence displayed by animals and humans. AI research has been defined as the field of study of intelligent agents, which refers to any system that perceives its environment and takes actions that maximize its chance of achieving its goals.



WHATS AI/ML BRIEF SUMMARY

Machine learning is an application of AI that enables systems to learn and improve from experience without being explicitly programmed. Machine learning focuses on developing computer programs that can access data and use it to learn for themselves. Similar to how the human brain gains knowledge and understanding, machine learning relies on input, such as training data or knowledge graphs, to understand entities, domains and the connections between them. With entities defined, deep learning can begin.



Technology We Used

Technology We Used



React

React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta and a community of individual developers and companies.



Netlify

Netlify is a remote-first cloud computing company that offers a development platform that includes build, deploy, and serverless backend services for web applications and dynamic websites.



JavaScript

JavaScript, often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS.

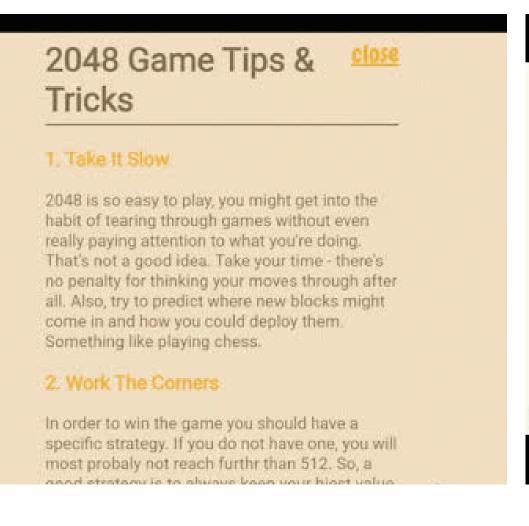


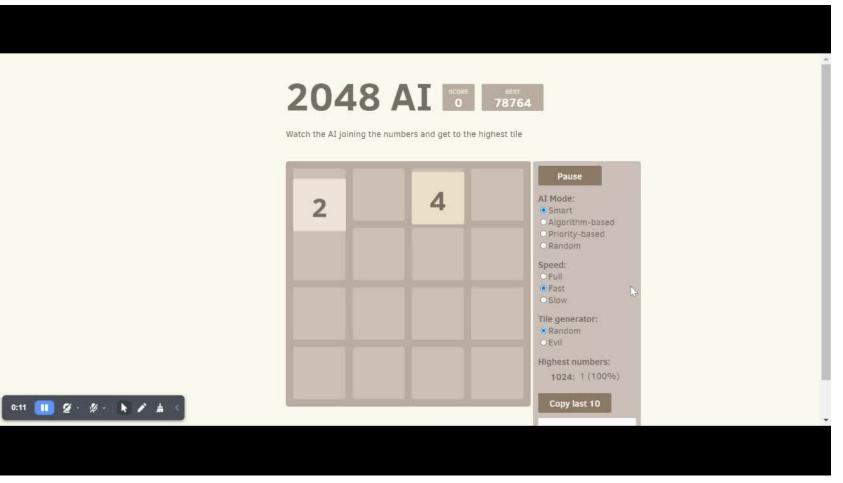
Saas

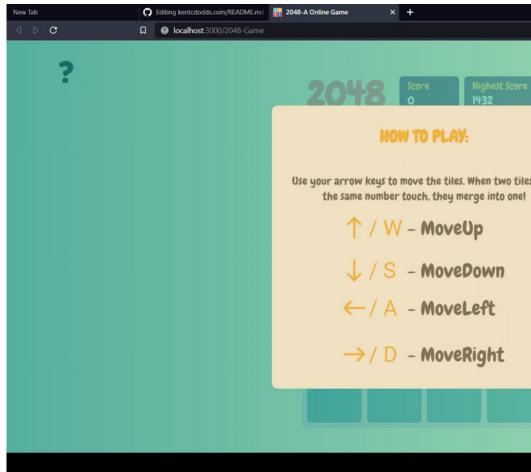
Sass is a preprocessor scripting language that is interpreted or compiled into Cascading Style Sheets. Sass Script is the scripting language itself. Sass consists of two syntaxes.

Screenshots & Media

Game Overview Al Winning

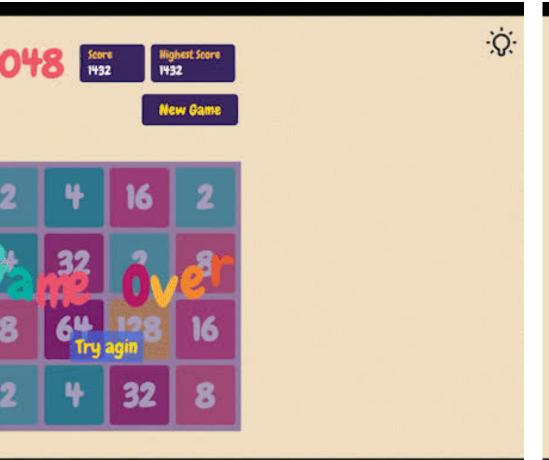






Screenshots & Media

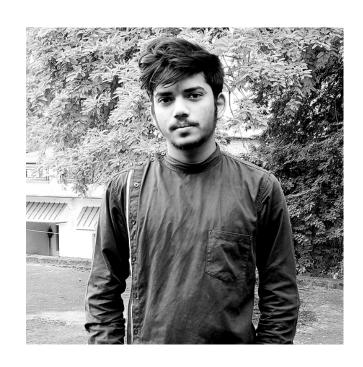
Game Overview Screenshots





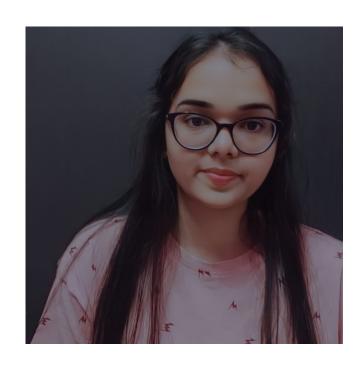


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THANK YOU

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