PENUMUCHU NIHITH
B.Tech. - CSE - Artificial Intelligence & Machine Learning
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BRIEF SUMMARY

Enthusiastic Computer Science student specializing in Artificial Intelligence and Machine Learning at SRM University. Proficient in a range of programming languages and technologies, including HTML, CSS, JavaScript, React, Next.js, and TypeScript. Demonstrated experience in developing diverse projects, from optimizing kitchen operations with a Feast Finder to utilizing EEG signals for mental health prediction. Skilled in designing and implementing innovative solutions, with a strong ability to analyze and address complex problems. Committed to leveraging technology and machine learning to drive impactful results across various domains.

KEY EXPERTISE

Html   CSS   Javascript   Python   SQL   Git

EDUCATION

SRM Institute of Science & Technology, Kattankulathur   2021 - 2025
B.Tech. - CSE - Artificial Intelligence & Machine Learning | CGPA: **7.60** / **10**

SRI CHAITANYA JUNIOR COLLEGE   2021
12th | BIEAP | Percentage: **84.20** / **100**

SRI CHAITANYA SCHOOL   2019
10th | BSEAP | Percentage: **90.25** / **100**

PROJECTS

3D Racing Game   07 Oct, 2024 - 03 Nov, 2024
Team Size: 1

Key Skills: Javascript

Project Link: https://3d-racing-game.vercel.app/

Project Overview
This 3D Racing Game provides a minimalist racing environment with colorful cars, a nitro boost feature, and the option to switch camera angles for different perspectives. Players control the car's movement using the arrow keys, making it easy to pick up and play. The game features a nitro gauge, allowing players to temporarily boost their speed for an extra edge.

Key Features
Simple 3D Graphics: A basic yet engaging 3D environment created with JavaScript.
Multiple Camera Angles: Switch between different camera views to enhance gameplay.
Nitro Boost: Speed up with the nitro boost feature, displayed as a percentage on the screen.
Score Counter: Track your progress and score as you navigate the course.

Technologies Used
JavaScript: The game is built entirely with JavaScript, utilizing it for rendering graphics, handling user inputs, and managing game logic.

SkillBridge   01 Sep, 2024 - 07 Oct, 2024
Team Size: 1

Key Skills: HTML   CSS   Javascript   TypeScript

Project Link: https://skillbridge-brown.vercel.app/

Key Features
Personalized Learning Paths: Discover curated courses and content tailored to user-specific career goals and industry requirements.
User-Friendly Interface: Easy navigation and a seamless learning experience.
Responsive Design: Optimized for both desktop and mobile, offering a consistent user experience across devices.
AI-Powered Recommendations: Uses intelligent algorithms to suggest courses that best match individual career aspirations.

Technologies Used:

HTML & CSS: For structured layout and styling.
JavaScript: To handle interactivity and user engagement.
TypeScript: Enhances code reliability and maintainability with type safety.

Wavelength   07 Aug, 2024 - 07 Oct, 2024

Team Size: 1

Key Skills: HTML   CSS   Javascript   TypeScript

Project Link: https://wavelength-peach.vercel.app/

Key Features
Music Browsing Interface: Explore sample playlists, albums, and popular music tracks.
Responsive Design: Adapts seamlessly to various screen sizes for an optimal experience on both mobile and desktop.
Interactive UI Elements: Engaging animations and smooth transitions for a dynamic user experience.
Technologies Used
HTML & CSS: For structural layout and styling to create a visually appealing interface.
JavaScript: Adds interactivity for seamless user engagement.
TypeScript: Ensures code stability and maintainability with added type safety.

Feast Finder   14 Jan, 2024 - 23 Apr, 2024

Team Size: 1

Key Skills: Html   CSS   JS   TypeScript

Project Link: https://feast-finder-lovat.vercel.app/

Key Features
Restaurant Listings: Browse a range of restaurants with details like ratings, cuisines, and pricing information.
Cart Functionality: Add items to the cart and review the order before checkout.
Responsive Design: Accessible on multiple devices, from desktops to mobile screens, with a consistent and clean layout.
Technologies Used
HTML & CSS: For structuring content and styling the interface.
JavaScript: To handle user interactions and dynamic updates.
TypeScript: For enhancing code quality and maintainability.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Predicting Psychological Mental Health DIsorders from EEG signals using Machine Learning Techniques   03 Aug, 2024

Research Project | **Mentor:** Dr M Vimala | **No. of Authors:** 2
Key Skills:

EEG Signal Processing   Feature Extraction   Machine Learning Techniques   Data Analysis and Statistical Modeling

Knowledge of Psychological Disorders   Programming Skills (Python)   Data Visualization

The project involves using EEG signals dataset which is collected from patients exhibiting symptoms of mental health disorders such as depression, anxiety, and schizophrenia. EEG signals are then preprocessed to remove noise and artifacts, followed by feature extraction to identify critical patterns associated with these disorders. Various machine learning techniques, including random forests, and neural networks, are applied to the processed data to predict the likelihood of mental health conditions.

CO-CURRICULAR ACTIVITIES

- GOOGLE ANDROID DEVELOPER VIRTUAL INTERNSHIP (SEP - NOV 2023) certificate.
- PALO ALTO CYBERSECURITY VIRTUAL INTERNSHIP (JAN - MAR 2024) certificate.

EXTRA CURRICULAR ACTIVITIES

- Participated in Logo Contest for 5G Use Case Lab on December 8th, 2023, organized by IETE Student Forum of the Department of Electronics and Communication Engineering

WEB LINKS / IMs

- Other - https://nihithportfolio-nwdqj0ck8-ra2111026010124s-projects.vercel.app/
- Codechef - https://www.codechef.com/users/srmbtech_04
- Other - https://leetcode.com/u/RA2111026010124/

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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