Sai Vaishnav Thota

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Education

CVR College of Engineering	Hyderabad, Telangana
B.Tech in Computer Science and Engineering (GPA: 7.72 / 10.00)	*2021-2025*
Sri Chaitanya Junior College	Hyderabad, Telangana
MPC (960/1000)	*2019-2021*
Paramita High School	Karimnagar, Telangana
SSC (GPA: 9.7 / 10.00)	*2018-2019*

Profile

A highly motivated and dedicated individual passionate about exploring the intersection of technology and real-world applications. Known for a deep curiosity to understand how things work, from foundational computing concepts to cutting-edge software development. Adept at learning new skills independently, solving complex problems, and delivering results within tight deadlines. Experienced in collaborating with teams to build innovative solutions, with a growing interest in generative AI and reshaping software development. Assertive, goal-oriented, and always eager to learn and contribute..

Projects

Home credit risk model stability | *Python, Flask*

Developed a web application using Flask as the frontend to predict home credit risk for financial institutions. The application integrates machine learning models, including Logistic Regression, Random Forest and K-Nearest Neighbors, to analyze and assess risk. Each model's performance was evaluated to ensure stability and accuracy. This project showcases a robust approach to handling financial datasets, enabling institutions to make informed lending decisions while optimizing risk management strategies.

AI-Powered Movie Recommendation System | *Python, Pandas, Scikit-learn*

Designed and implemented an AI-driven recommendation system that suggests movies based on user preferences. Leveraging natural language processing (NLP), the system extracts meaningful entities from movie descriptions using Named Entity Recognition (NER) and embeddings. Cosine similarity is calculated to rank movies, ensuring personalized and relevant suggestions. Advanced filtering techniques were applied to match user-specified genres and refine results.

Restaurants Review App | *MongoDB, Express, Node.js*

With this project, I've delved into the world of full-stack development, harnessing the power of MongoDB, Express and Node.js to create a seamless and engaging user experience. By using this application you can create your own reviews, updating existing ones, or even removing outdated feedback, contributing to an ever-evolving database of culinary experiences.

Certifications

The Web Developer Bootcamp 2024 | *Udemy*

Completed comprehensive course covering frontend and backend development concepts through practical exercises.

Technical Skills

Languages: Java, Python, JavaScript

Web Technologies: HTML, CSS, Node.js, React.js, Express.js, Bootstrap

Databases: MongoDB, MySQL

Machine Learning: Logistic Regression, Random Forest, K-Nearest Neighbors

Concepts: Data Structures & Algorithms, Operating Systems, Computer Networks, APIs, DBMS, Agile

Additional Skills: Frontend-Backend Integration, Full-Stack Development, Problem Solving, System Design, LLM Integration