Sai Rahul P

Computer Science Undergraduate · Machine Learning · Software Development

Contact

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8977123164

Other

AI Agent Development

Skills

Java Python SQL Machine Learning Deep Learning Data Analytics Data Structures Algorithms OOPS OS System Design DBMS HTML CSS Git OpenCV NetworkX LLVM IR.

Summary

Computer Science undergraduate with a strong foundation in analytical problem-solving and computational thinking. Interested in building efficient solutions by applying programming principles, data-driven approaches, and structured problem-solving techniques to real-world challenges.

Experience

Data Analyst — July 2026-Sep 2026
Bluestock Fintech

- Completed the data analyst prerequisite program for an internship at Bluestock FinTech, focusing on financial statement analysis and stock market fundamentals.
- Collaborated with team members to build SQL query scripts, Python ETL pipelines, and data ingestion tools.

Education

B.Tech — Sep 2023-Apr 2027
Amrita Vishwa Vidyapeetham

Projects

- My project is a Smart Emergency Evacuation System designed to identify safer evacuation routes during fire emergencies. It takes a building floor plan and uses Computer Vision techniques such as OpenCV and skeletonization to convert it into a navigation graph containing corridors, paths, and exits. It simulates fire hazards such as carbon monoxide, heat, and smoke, and calculates the FED (Fractional Effective Dose) to estimate the accumulated exposure of occupants. A Graph Convolutional Network (GCN) predicts the risk levels of different locations, which are used by the routing algorithm to identify safer evacuation paths. The system also considers different occupant types, such as elderly people, wheelchair users, injured people, and able-bodied people, and supports dynamic route updates when conditions change.

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