



SAI VENKATA NIHANTH YADALAM
Bachelor of Technology in Computer Science
Amrita Vishwa Vidyapeetham, Coimbatore
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leetcode profile
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OBJECTIVE

Motivated and hardworking Computer Science student with foundations in Data Structures and Algorithms and proficiency in Python and Java. Experienced in Machine Learning fundamentals and data-driven decision making through coursework and projects, with additional exposure to hackathons and collaborative problem-solving. Seeking opportunities to apply technical expertise, analytical thinking, and creativity to real-world challenges while continuing to learn and grow.

EDUCATION

• Bachelor of Technology in Computer Science	2023-Present
<i>Amrita Vishwa Vidyapeetham / Coimbatore, Tamilnadu</i>	CGPA: 8.29
• Board of Intermediate Education, Telangana	Apr, 2023
<i>Narayana Junior College / Hyderabad, Telangana</i>	Percentage: 97.50
• Board of Secondary Education, Andhra Pradesh	Jun, 2021
<i>Narayana High School / Anantapur, AP</i>	Percentage: 99.33

PERSONAL PROJECTS

- **Document Intelligence System – Adobe India Hackathon, 2025** July, 2025
 - Built a two-stage system for PDF parsing: Stage 1 extracted hierarchical outlines (H1, H2, H3...) using MiniLM embeddings and layout features.
 - Stage 2 ranked relevant sections per persona and task using semantic similarity; extracted refined sub-sections for deeper insights.
 - Tools & Technologies Used: Python, MiniLM, Transformers, Pandas, Information Retrieval
- **Multipurpose Bicycle Tool Kit** Oct, 2025
 - Built an STM32 based smart bicycle safety kit integrating anti-theft authentication, real-time GPS tracking, and an intelligent 6 stage crash detection algorithm for accurate emergency alerting.
 - Developed a complete embedded system with keypad input, LCD UI, Bluetooth communication, real-time sensor processing, and state machine driven control flow.
 - Tools & Technologies Used: STM32, Embedded C, I2C, UART
- **PathPilot** Oct, 2024
 - Engineered an interactive console application for ride allocation, utilizing Heaps for optimized driver matching and HashMaps for efficient management of user sessions and ride history.
 - Implemented the A* search algorithm on Graph data structures to compute shortest paths for navigation, integrating dynamic fare calculation logic based on distance constraints.
 - Tools & Technologies Used: Python, A* Algorithm, Graphs, Heaps, HashMaps, OOP

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, C, JavaScript, HTML, CSS

Libraries and Frameworks: Pandas, NumPy, Seaborn, Matplotlib, React.js, Electron.js

Developer Tools: Tableau, Git, GitHub, VS Code

Coursework: Amazon ML Summer School (2025); DSA (GeeksforGeeks); DS and ML Course, Amrita Vishwa Vidyapeetham (2025)

Areas of Interest: Machine Learning, Data Visualization, Generative AI, Full Stack Development

ACHIEVEMENTS

- **Selected Participant - Amazon ML Summer School** Aug, 2025
 - Selected for an exclusive learning program conducted by Amazon Scientists, covering foundational topics in Machine Learning and their industrial applications.