



SAI VENKATA NIHANTH YADALAM
Bachelor of Technology in Computer Science
Amrita Vishwa Vidyapeetham, Coimbatore
✉ cb.sc.u4cse23367@cb.students.amrita.edu

☎ +91-9299507088
✉ nihanthyalam06@gmail.com
LeetCode Profile
GitHub Profile
LinkedIn Profile

OBJECTIVE

Motivated and hardworking Computer Science student with strong foundations in Data Structures and Algorithms and proficiency in Python, Java, and SQL. 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
Amrita Vishwa Vidyapeetham / Coimbatore, Tamilnadu CGPA: 8.26
- **Board of Intermediate Education, Telangana** Apr, 2023
Narayana Junior College / Hyderabad, Telangana Percentage: 97.50
- **Board of Secondary Education, Andhra Pradesh** Jun, 2021
Narayana High School / Anantapur, AP 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, C++, SQL, Haskell, 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.