Yaswanth Ravulapalli

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Summary

Final-year B.Tech CSE student passionate about building scalable, customer-focused software solutions. Experienced in backend systems, RESTful APIs, ML pipelines, and cross-functional product development. Proven ability to thrive in agile environments and translate business needs into technical solutions. Eager to contribute to enterprise-level innovation through data-driven, impactful initiatives.

Education

Amrita Vishwa Vidyapeetham 8.52 CGPA
Bachelor of Technology, Computer Science and Engineering *2021 - 2025*

Skills

Technical Skills Java, Python, C/C++, Telebot, Numpy, MERN Stack, OpenCV, Socket.IO, PostgreSQL, MySQL, MongoDB, Git, Postman, AWS, OOP's Concepts, Data Structures & Algorithms
Soft Skills: Teamwork, Problem-Solving, Communication, Adaptability

Internship

Intern at Mind Brain Center | *Machine Learning, Deep Learning, Brain Functionalities* Oct 2024 - Present
- Researched and developed ML models simulating brain functions for real-life decision systems.
- Contributed to AI model explainability and scalability using real-time validation metrics.

Intern at SAMBUQ | *Flutter, MongoDB, Jira* Aug 2024 - Dec 2024
- Built a user-focused application using Flutter & MongoDB, improving mobile performance and UI/UX.
- Participated in agile sprints, collaborated with cross-functional teams for enhanced feature delivery.

Projects

Liver Tumor Detection | *Python* Sep 2024 - Feb 2025
- Engineered a hybrid 3D U-Net for liver tumor segmentation with 96% accuracy, optimizing architecture and stabilizingtraining by fine-tuning hyperparameters.
- Integrated LIME, SHAP, and Grad-CAM for Explainable AI, enhancing model interpretability and automating real-timediagnostics for improved medical imaging.

Attendance Management | *Angular, H2 Database* Nov 2024 - Dec 2024
- Built a real-time attendance management system with Angular and H2 Database, integrating role-based functionality and secure authentication to enhance productivity.

Effective Targeting of Advertisements | *Python, SQL, ML, Matplotlib, Ad Analytics APIs* Jun 2024 - Jul 2024
- Developed and debugged a scalable ML-based ad targeting system, optimizing system architecture and performanceefficiency.
- Resolved bottlenecks in data processing and memory usage, improving ad delivery speed.

E-Hub | *Java, PostgreSQL* Jun 2024 - Jul 2024
- Built E-Hub, a Java-based platform enabling startups to efficiently manage clients, teams, and projects.
- Optimized scalability and security through RESTful APIs, improved indexing, and enhanced authentication.

Inventory Management | *React, PostgreSQL* Mar 2024 - May 2024
- Developed and optimized a real-time inventory processing system using React and PostgreSQL, emphasizing low-latency performance and scalable architecture.
- Designed efficient query mechanisms, enhancing reliability, reducing latency, and enabling accurate, real-time inventory tracking.

Blog App | *React, CSS, MongoDB* Jan 2024 - Feb 2024
- Created a MERN-stack blogging platform with secure authentication, CRUD operations, and a responsive user interface.