

Shivanand Racha

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SUMMARY

Dedicated computer science student with a solid foundation in programming and web technologies. Experienced in developing innovative software solutions through coursework and hands-on projects. Known for strong analytical and problem-solving skills. Seeking an opportunity to apply my knowledge, contribute to impactful software development projects, and continue growing professionally.

EDUCATION & CERTIFICATIONS

B.Tech. in Information Technology,

Oct 2022 - Present

SASTRA University, Thanjavur,

Current CGPA : 7.6277

Intermediate in MPC

May 2020 - Aug 2022

SR Edu centre, Warangal

Percentage : 98.4%

EXPERIENCE

Participation in VEL Ideaforge 2K25

27/02/2025 - 28/02/2025

DA National Level 24-hour Hackathon held on 27/02/2025 to 28/02/2025, conducted by Department of Computer Science and Design, School of Computing at Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology

Winner of First Prize in Technology infused Bio Contest

9 June 2023

Won First Prize at BioContest 2025 for Innovative Integration of Technology in Biology, outperforming 60 individual teams

SKILLS

Technical

- **Programming Languages** : C, C++, Python, Java
- **Web Development** : HTML, CSS, JavaScript, React, RESTful API, MERN Stack
- **Databases** : MySQL, MongoDB
- **Tools & Technologies** : Git, Docker, GitHub, Unity

Non - Technical

Leadership, Effective Communication, Critical Thinking, Problem- Solving, Time Management, Adaptivity, Decision Making, Public Speaking, Event Management, Planning & Budgeting

PROJECTS

Wanderlust

- Developed a global hotel booking platform with a sleek UI and responsive design. Built using HTML, CSS, JavaScript, Node.js, and Express.js. Implemented advanced filtering with location, price, and rating options. Integrated Google Places API for location autocomplete. Added backend search with pagination for performance. Designed a flexible booking data schema to support future features.

TradeMate

- Built a full-stack stock trading platform using HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB with real-time stock chart integration. Integrated a machine learning model using Python and scikit-learn to analyze historical stock data and predict short-term price trends. Developed a REST API to serve ML predictions, enabling dynamic trade suggestions on the frontend. Structured the backend for scalability with role-based access and modular API design.

Fruit quality detection using Deep Learning

- Designed and deployed deep learning models (SqueezeNet, ResNet, ShuffleNet, MobileNet) for fine-grained, image-based classification of fruit quality across multiple categories. Leveraged transfer learning on pre-trained CNN architectures with custom classification heads, achieving high accuracy across diverse datasets. Applied data augmentation, early stopping, and learning rate scheduling to optimize generalization. The models were optimized and quantized for real-time inference on edge devices with limited computational resources.