Ragula Shiva Shankar

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Professional Summary

Computer Science Engineering graduate with internship experience in full-stack development and hands-on academic projects in machine learning. Skilled in React.js, Node.js, Python, and SQL with a solid foundation in data structures and algorithms. Built projects including an e-commerce platform, a student performance prediction model (96% accuracy), and a plant disease classification model (90% accuracy). Eager to contribute as an entry-level software engineer by applying technical expertise to build reliable and efficient solutions.

Technical Skills

Languages: Python, Java, JavaScript, C++, SQL, HTML5
Frontend: React.js, HTML5, CSS3, Responsive Web Design
Backend: Node.js, Express.js, REST APIs
Databases: MySQL, Database Design, Data Management
Tools: Git, GitHub, Linux, Jupyter Notebook, VS Code
Practices: Agile, CI/CD, Code Reviews
Machine Learning: TensorFlow, Keras, Scikit-Learn, Pandas, NumPy

Experience

Software Development Intern Oct 2023 – Dec 2023
ZIDIO *Hyderabad, India*

- Engineered backend features using Node.js and Express.js, improving data processing efficiency by 15%.
- Developed reusable React.js components that enhanced UI responsiveness and increased user engagement by 20%.
- Optimized API endpoints, reducing response time by 15% through systematic debugging and performance tuning.
- Collaborated in Agile sprints, participating in stand-ups, sprint planning, and peer reviews to ensure code quality.
- Authored clean, maintainable, and well-documented code contributing to scalable architecture.

Projects

Full-Stack E-Commerce Web Application | React.js, Node.js, Express.js, MySQL May 2024

- Architected full-stack platform supporting 100+ concurrent users with secure authentication and order management.
- Engineered RESTful APIs for payments, authentication, and inventory, enabling seamless integration across modules.
- Optimized MySQL schema design, reducing query time by 25% for product search and order retrieval.
- Implemented authentication middleware, strengthening data protection for 500+ test users.

Student Performance Prediction Model | Python, Scikit-Learn, Pandas Mar 2024

- Built ML model on dataset of 5,000+ records, achieving 96% prediction accuracy.
- Performed feature engineering and preprocessing that improved model precision by 12%.
- Automated workflows with Python scripts, reducing evaluation time by 70%.
- Benchmarked algorithms (Random Forest, Gradient Boosting), selecting the most efficient model for deployment.

Plant Disease Classification Model | TensorFlow, Flask(basics) Jul 2023

- Built a CNN to classify plant leaf diseases using public datasets, achieving 90% accuracy.
- Developed a Flask-based API to upload images and return model predictions.
- Tested model performance with sample datasets and improved accuracy through tuning.

Education

Hyderabad Institute of Technology and Management Hyderabad, India
B.Tech in Computer Science Engineering; CGPA: 7.42/10 *Nov 2021 – Jun 2025*

- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Software Engineering, DBMS

Certifications

Full Stack Development | Infosys Springboard Apr 2024

- Completed 100+ hours of training in React, Node.js, and DBMS with hands-on projects.

Programming in Python | Meta Sep 2023

- Built Python scripts for automation and data handling; covered OOP, APIs, and debugging.

Introduction to Data Analysis | IBM Jun 2023

- Analyzed datasets with Pandas & NumPy; created visualizations in Matplotlib improving insights.