







EERLA SRIHARI MANIKANTA

Bangalore, India

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TECHNICAL SKILLS

Programming Languages: Core Java, Python, SQL, Data Structures & Algorithms (DSA)

Frameworks / Libraries: Spring Boot, NumPy, Pandas

Web Development: HTML, CSS, JavaScript

Tools / Platforms: VS Code, Git & GitHub, Google Workspace

PERSONAL PROJECTS

SpringCart – E-commerce Web Application — Spring Boot, JSP, MySQL, Spring Security, Java

- Developed an end-to-end **E-commerce web application** with 50+ product listings, **user authentication**, shopping cart, and checkout workflows.
- Implemented **role-based authentication and authorization** using **Spring Security**, ensuring secure and separate workflows for admins and users.
- Optimized database operations with **Hibernate ORM**, improving CRUD performance by 20% and enabling seamless integration across **DAO, Service, and Controller** layers.

Accident Prediction Model — Python, scikit-learn, MySQL, Flask, Pickle

- Engineered a **machine learning road accident prediction model** using **10+ variables**, projecting a **25% reduction in accident rates**.
- Built predictive models (**SVM & KNN**) on historical traffic datasets, achieving a **15% improvement in classification accuracy**.
- Deployed the model with **Pickle** for saving/loading, enabling efficient real-time predictions.

Pineapple Store Frontend — HTML, CSS, JavaScript

- Developed a **responsive and interactive e-commerce frontend** with **product listings, detailed views, and simulated checkout**, enhancing user experience and engagement.
- Implemented **modular components, clean UI design, and theme options**, ensuring maintainability, scalability, and intuitive navigation.
- Focused on **performance optimization** and **cross-browser compatibility**, providing smooth interactions and consistent layout across devices.

INTERNSHIPS

Data Valley IT Solutions

GEN-AI Student Intern

Remote

January 2025-April 2025

- Gained hands-on experience in **Generative AI, LLMs, and Python development**, handling 500+ user queries during testing.
- Built AI projects like **chatbots, summarizers, and question-answering systems** using **Groq API**, reducing response latency by 35%.
- Applied **API integration** and **scalable system design** for maintainable, production-ready solutions.
- Added advanced features like **context-aware memory, multi-user support, and RAG**, improving answer relevance by 25%.
- Planned upcoming enhancements: **voice input, analytics dashboards, and improved throughput**, following **Responsible AI practices**.

EDUCATION

Rise Krishna Sai Prakasam Groups of Institutions

Bachelor of Technology in **Computer Science (AI & ML)**, GPA: 8.1/10.0

Ongole, Andhra Pradesh

November 2021 - May 2025

* Relevant Coursework: **Data Structures, Database Management Systems, Machine Learning, Cloud Computing**

Narayana Junior College

Intermediate Education, GPA: 8.9/10.0

Vijayawada, Andhra Pradesh

June 2018 - March 2020

* Relevant Coursework: **Mathematics, Physics, and Chemistry**

Pragathi Vidya Nilayam

Secondary School Certificate, GPA: 9.5/10.0

Kanigiri, Andhra Pradesh

June 2017 - March 2018

* Relevant Coursework: **Languages, Mathematics, Science, Social Studies**

CERTIFICATIONS

- Software Engineering and Agile Software Development** – INFOSYS Springboard
- Basic Python and MySQL** – HackerRank
- Mastering Java, Spring6, SpringBoot3** with JDBC, JPA, Spring Security, Docker, and Microservices
- SQL (Intermediate)** – HackerRank, 2025

EXTRACURRICULAR ACTIVITIES

- Solved **120+ coding Problems** on **LeetCode**; and consistently ranked among top campus performers.
- Participated in **hackathons** and coding assessments, demonstrating strong **DSA** and **problem-solving skills**.
- Engaged in a **development workshop** by **GeeksforGeeks**, enhancing skills in **AI model deployment, cloud integration, and scalable system design**.