EERLA SRIHARI MANIKANTA

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Career Objective

Aspiring Software Development Engineer with strong skills in DSA, OOP, Java, Python, and SQL. B.Tech CSE(AI&ML) graduate eager to contribute to full-stack development, scalable systems, and AI-driven solutions while growing as a software engineer.

Education

Bachelor of Technology – Computer Science & Engineering (AI &ML)	**2021-2025**
Rise Krishna Sai Prakasam Groups Of Institutions - Ongole	CGPA: 8.09
Senior Secondary Education(MPC)	**2018-2020**
Narayana Junior College-Vijayawada	CGPA: 8.9
Secondary School Education	**2017 – 2018**
Pragathi Vidya Nilayam – Kanigiri	CGPA: 9.5

Skills

- **Programming:** Java, Python
- **CS Fundamentals:** DSA, OOP, Operating Systems, DBMS, Computer Networks
- **Web & Backend Development:** REST APIs, HTML5, CSS3, JS-DOM
- **Database & Storage:** SQL, MySQL, JDBC
- **Tools & Platforms:** Git, IntelliJ IDEA, Google Colab, Postman
- **Cloud:** AWS(Beginner)

Projects

E-Commerce Product Catalog | React.js, CSSGrid, JavaScript, HTML5
- Developed a scalable, responsive **front-end web app** with dynamic product search**, filters, and sorting**.
- Built reusable **React components** and implemented **state & props** for dynamic UI behavior.
- Ensured cross-device compatibility and adhered to semantic HTML/CSS best practices.

Online Ticket Reservation System | **Java**, **Spring Boot, MySQL**
- Designed a secure **full-stack web application** for user registration, booking, and cancellation.
- Integrated **SHA-256** password encryption, **REST APIs**, and **JPA**-based database operations.
- Enabled secure bookings and cancellations for up to 100 concurrent users with encrypted storage.

Road Accident Prediction System | Python, SVM/KNN, Flask, MySQL, HTML5/CSS3
- Built a **machine learning model** using **SVM** and **KNN** classifiers in Python to predict accident risk based on key parameters.
- Deployed the model as a web application with a **Flask backend** and integrated **MySQL** for data storage and user inputs.
- Achieved ~85% model accuracy for accident risk predictions and deployed as a real-time web app.

Internships

- **GEN-AI Intern**, DataValley IT Solutions (*Remote*)   *Jan–Apr 2025*
  Gained introductory experience in LLM-based prompt engineering and generative AI concepts during internship projects.
- **AI/ML Intern**, EduSkills (AICTE) (*Remote*)   *Jan–Mar 2024*
  Built and evaluated ML classification models in Python focusing on precision and recall.
- **Cybersecurity Intern**, EduSkills (AICTE) (*Remote*)   *May–Jul 2023*
  Conducted vulnerability assessments and implemented basic security protocols in virtual labs.

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.