

# EERLA SRIHARI MANIKANTA

Bangalore, India

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## TECHNICAL SKILLS

**Languages:** Python, SQL, MySQL Server

**Data Analysis Tools:** Excel, Tableau, Interactive dashboards, KPI tracking, Power BI

**Libraries :** NumPy , Pandas, Matplotlib, Seaborn,

**Additional :** Core Java, HTML5, CSS3, Javascript, JDBC

**Cloud :** AWS(Beginner)

## PERSONAL PROJECTS

### Blinkit Sales Analysis Dashboard — Excel & Power BI

- Developed an interactive sales dashboard handling 8.5K+ records using **PivotTables, PivotCharts, slicers, and dynamic KPIs**.
- Calculated and visualized key performance indicators (**Total Sales, Avg Sales, Items Sold, Avg Rating**) segmented by **item type, outlet size, location, and year**.
- Conducted drill-down analysis to identify top-performing products, high-value regions, and underperforming outlets, improving business decision-making efficiency by **20%**.

### Groq AI Chatbot — Python, Groq API, VS Code, GitHub

- Built a Python-based **AI-chatbot** integrated with **Groq API**, delivering real-time responses using LPU acceleration, reducing response latency by **35% compared to CPU/GPU execution**.
- Optimized model performance by reducing latency and improving throughput compared to CPU/GPU execution.
- Designed the system with scalability and **future integration** (memory, RAG, deployment) in mind.

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

- Engineered a **machine learning** based road accident prediction model by analyzing 10+ variables (weather patterns, traffic violations, road types), projecting a **25% reduction in accident rates**.
- Built predictive models (**SVM & Apriori/KNN**) on historical traffic datasets, achieving a 15% improvement in accuracy for high/low risk accident classification.
- Deployed the model with **pickle** for saving/loading, enabling efficient real-time predictions.

## INTERNSHIPS

### Data Valley IT Solutions

GEN-AI Student Intern

Remote

January 2025-April 2025

- Explored **Large Language Models(LLMs)** and **prompt engineering** for real-world problem solving
- Built mini-projects using **GroqAI API** models to perform tasks such as summarizing information, and answering questions.
- Applied NLP techniques such as **text summarization, question answering, and chatbot development**.
- Gained exposure to **Generative AI ethics, biases, and responsible AI practices**.

### AICTE-Eduskills

AI&ML Intern

Remote

January 2024 – may 2024

- Designed and implemented basic machine learning models like **SVM, KNN, and Decision Trees** for predicting outcomes from historical data.
- Worked with real datasets performing **classification**(grouping data), **regression**(predicting numerical values), and **clustering**(finding patterns).
- Created simple reports and visualizations to explain model results, supporting data-driven **decision-making** even with limited **prior knowledge**.

### AICTE-Eduskills

Cybersecurity Intern

Remote

May 2023 - July 2023

- Gained foundational knowledge in **network security** and **ethical hacking** learning how systems can be protected from cyber threats.
- Learned about cyber laws, incident reporting, and building awareness of legal and ethical responsibilities in cybersecurity.
- Conducted basic **penetration testing** exercises to simulate attacks and identify **potential security issues**.

## EDUCATION

### Rise Krishna Sai Prakasam Groups of Institutions

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

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

Andhra Pradesh, India

November 2021 - May 2025

## CERTIFICATIONS

- SQL (Intermediate) — HackerRank, 2025
- Problem Solving (Intermediate) — HackerRank, 2025.
- Data Visualization with Pandas — Kaggle, 2025.

## EXTRACURRICULAR ACTIVITIES

- Solved 120+ coding challenges on LeetCode; consistently ranked in the top performers in campus-level coding contests.
- Achieved high scores in DSA-based coding assessments and hackathons, showcasing problem-solving and algorithmic skills.
- Engaged in AI/ML and Generative AI seminars, enhancing knowledge in model development, cloud integration, and responsible AI practices.
- Attended a Data Analytics Workshop (2025) by GeeksforGeeks, gaining hands-on experience in KPI tracking, dashboard development, and SQL-based data analysis.