# Reshma Sriram

AI-ML Trainee Engineer & Data analyst

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### Summary \_\_\_\_\_

Professional with a solid background in Electrical Engineering and Programming who is also detail-oriented and adaptable. Competent in embedded system programming using Python and C. Proficient in HTML and CSS Web development. Expert in DBMS and SQL, with passion for AI and machine learning. Possess a strong understanding of Java and MATLAB along with technical proficiency.

## Education \_\_\_\_\_

# **Sri Sairam Institute of Technology**

**B.E. ELECTRICAL AND ELECTRONICS ENGINEERING CGPA: 8.6** 

Chennai, Tamil Nadu 2020 - 2024

Avasoft

# **Professional Experience**

#### **AI-ML Trainee Engineer**

2024 – PRESENT Location

- Developed and implemented \*\*Recurrent Attention Generator (RAG)\*\* models using Python to enhance machine learning algorithms for data processing.
- Collaborated with the team to design and deploy \*\*AI-driven web scraping solutions\*\* to collect data from various websites and update the internal database, significantly improving data retrieval speed and accuracy.
- Worked with the \*\*backend\*\* development team to integrate machine learning models into production systems, ensuring seamless functionality between AI algorithms and the backend infrastructure.
- Enhanced the \*\*frontend\*\* and \*\*backend\*\* processes, providing optimized solutions in Python, focusing on scalability, efficiency, and robust error handling.
- Contributed to cross-functional teams, working on \*\*data-driven projects\*\* involving machine learning applications for automation and security enhancement.

#### Skills \_\_\_\_\_

**Languages** C, Java, Python, SQL, HTML, CSS, React and Node JS

Cloud Computing, Networking, DBMS (SQL/NoSQL), Machine Learning & PCB Design (Advanced), VLM, Content Other Skills generation, grammar proficiency, Artificial Intelligence, Large Language Models, MS Office and Excel, JSON, JavaScript, Express JS, data modeling, Natural Language Processing, Object-Oriented Programming, AWS, Azure

# Projects \_\_\_\_

**RAG IMPLEMENTATION** View Project

TECH STACK: AI-CHAT BOT

 An AI-powered medical guidance system using FastAPI, PostgreSQL, and Azure OpenAI for intelligent prescription assistance. It features user authentication, RAG-based responses, and web search integration for accurate medical insights.

**User-collection** View Project

TECH STACK: NODE.JS-BACK-END

• An application for maintaining the user-details and showing the information. Simple implemented web page using Node.js (mongo Db).

# Other Projects \_\_\_\_\_

- Wireless Power Transfer for Electric Vehicle
- CAN Satellite
- Pipeline Climbing Robot for Gas Leakage Detection
- Integrated Li-Fi (Light Friendly) Communication for Smart Robotic Control
- PV Based Multilevel Inverter Using Flyback Converter
- Developed an AI-powered RAG system integrating retrieval and text generation for enhanced response accuracy.
- Developed a React-based form with real-time validation using React Hook Form/Formik.
- Integrated request validation, authentication, and error handling for secure API communication using python.
- Designing of FRONT-END website using FIGMA

#### Achievements \_\_\_\_\_

- Insperathon Winners Lifi Integration technology
- Paper Publishment International Conference (IEEE)
- IEEE Xtreme Coding Competition All India Rank 25 and World Rank 250
- Niral Government Funded Project Winners Pipeline Climbing Robot
- Smart India Hackathon Finalist