Rani Kanaparthi

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SUMMARY

Passionate about tackling real-world challenges, eager to learn emerging technologies, and committed to building innovative solutions that make a meaningful impact on society.

EDUCATION

Institute of Aeronautical engineering.   *june 2022 – May 2025*
Bachelors of Technology- CGPA:8.1

Mahaveer Institute of Science and Technology   *Aug 2019 – july 2022*
Diploma in computer science- CGPA:9.3

EXPERIENCE

Software Engineer Intern- ↗   *Hyd*
JPMC   *June 2024*

- Engineered unit tests for the getDataPoint function in clients data to **validate stock price accuracy** and bid-ask spread handling.
- Developed a Python-based trading simulation system to model **real-time market conditions**, process limit orders, and manage order books dynamically for realistic market behavior.
- Optimized market-making operations by generating synthetic market data, executing order flows, and serving real-time trading insights through an **HTTP server to enhance performance.**

AWS Trainee- ↗   *ECIL*
National Small Industries corperation   *June 2023 – july 2023*

- Gained a strong understanding of AWS cloud services, including **EC2 for scalable computing and Lambda for serverless solutions**, enabling efficient application deployment and management.
- Worked closely with fellow trainees to brainstorm, design, and implement cloud-based solutions, fostering teamwork and innovative thinking.
- optimized **AWS cloud infrastructure, focusing on cost efficiency and scalability** through effective resource management.

PROJECTS

Malware Detection using Deep Eigenspace Learning | *Python,CNN,SVM.*   *github ↗*

- Developed a deep learning model using eigenspace techniques for malware detection, **achieving 89% accuracy**, leveraging algorithms such as Principal Component Analysis (PCA) and Autoencoders for feature extraction.
- Applied Support Vector Machines (SVM) and **K-Nearest Neighbors (KNN) for classification**, improving detection performance.
- Enhanced detection by analyzing malware behaviors and signatures in high-dimensional space, optimizing the model with Gradient Descent for training efficiency.

Sara-theChatbot | *Python,HTML,NLP,CSS,,Javascript,Flask*   *github ↗*

- Developed Sara, an AI-powered chatbot **that uses NLP techniques** such as intention recognition, achieving **72% precision** in understanding user queries.
- Developed Sara using JavaScript to ensure seamless integration with web platforms and real-time interaction, enabling smooth and efficient communication with users.
- Using interactive elements and dynamic content updates in JavaScript, increasing user retention and satisfaction through **personalized and responsive experiences**.

SKILLS

Languages	Javascript(Basic), Python, HTML, CSS, Java, SQL.
Coursework	Object-Oriented Principles,DBMS,Data Structures and Algorithms,OS,SDLC.
Frameworks and Tools	React, Django,Git,AWS,Linux,Figma,VS Code,Flask.
Soft Skills	Time Management, Teamwork, Communication, Problem Solving.
Speech	English,Telugu,Hindi,Kannada.

ACHIEVEMENTS

- participant of Google Girl Hackathon 2024.
- solved 200+ problems on leetcode and Institute rank less than 90 in GFG.
- Acquired the Web technologies(WD-101) with utilizing of javaScript and frontend technologies from pupilFirst ↗
- Led a team during the final year diploma project on Industry Connect.