NALAGARLA CHIRU ABHINASH

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Education

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,Chennai 2021 - 2025
B.Tech in Artificial Intelligence and Machine Learning *9.48/10 CGPA*

Work Experience

ADP INDIA **Jan 2025 – June 2025**
Intern *On Site*

ADP INDIA **June 2025 – present**
Associate Software Engineer *On Site*

Projects

AUTOMATED DATA ANALYSER USING GENERATIVE AI <u>Source Code</u>
- Designed and developed a web application using Python, Streamlit, and SQLite3 for automated data analysis.
- Integrated Google Gemini API to generate data insights and recommend suitable machine learning algorithms.
- Implemented automatic data preprocessing, visualization and distribution analysis with zero user input.
- Generated comprehensive PDF reports including visualizations, statistical summaries, and ML recommendations.

DATABASE INTERACTION USING LARGE LANGUAGE MODEL <u>Source Code</u>
- Developed an web application enabling natural language querying of databases using generative AI.
- Implemented the Gemini API to convert user queries into SQL, facilitating effortless data retrieval from databases.
- Created a user-friendly web interface with Streamlit, enhancing accessibility and interaction with database systems.
- Integrated automated data analysis and visualization features, improving data exploration and decision-making processes.

Technical Skills

Programming Languages: Python
Web Technologies: HTML, CSS, Streamlit
Database Tools : MySQL, Microsoft SSMS
AI Technologies: Tensorflow, Keras, PyTorch, Scikit-learn
Developer Tools: VS Code, Colab

Achievements

<u>Published Research Papers</u> **May 2025 – May 2024**
- Automated Data Analyser Using Generative AI <u>Link</u>
- Enhanced Database Interaction Using Large Language Models for Improved Data Retrieval and Analysis <u>Link</u>
- Transport Service Scheduling in Remote Regions by the Application of Machine Learning <u>Link</u>

<u>Smart India Hackathon</u> **Jan 2024**
- Developed the project Human Target Detection and Acquisition in Outdoor Scenarios, using pre-trained models like YOLO for human detection and anomaly detection to enhance situational awareness and security in dynamic outdoor environments.
- Lead the team and was shortlisted among 200 teams at the university level. Collaborated with team members to develop innovative solutions for real-world challenges.

Certifications

- Completed AI-ML virtual internship offered by Amazon through AICTE Virtual Internships.
- Completed Data Analytics Virtual Internship offered by Amazon through AICTE Virtual Internships.
- Certified in PCAP: Programming Essentials in Python, demonstrating foundational knowledge in Python.
- Achieved LeetCode 100 Days Badge (Top 4.2 %, 2024) for consistent problem-solving.
- Solved **150+** problems from **Leetcode** and **CodeChef**, building problem solving skills.
- **Won 4+ coding contests** organised in Veltech University.