

Sairam Konakanchi

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EDUCATION

CMR Institute of Technology

Bachelor of Technology in Computer Science

Hyderabad, Telangana

Graduation Date: Jun 2024

WORK EXPERIENCE

EDUNET FOUNDATION

Remote

Internship

Feb 2025 - Mar 2025

- Developed a comprehensive Air Quality Index Prediction Model utilising Python.
- Leveraged advanced data processing and cleaning techniques on over 25,000 data points from various environmental sources.
- Aimed at improving air quality forecasts by 40%.
- Conducted iterative model training and testing, achieving an initial accuracy rate of 85% on validation datasets.

PROJECT EXPERIENCE

FRAUD DETECTION in BLOCKCHAIN

Jan 2024

- **Reduced blockchain transaction false positives by 60%** by developing an **ML-based fraud detection system**.
- Processed **over 500,000 transactions daily**, utilising **Python, Pandas, and NumPy** for data handling and advanced preprocessing techniques like **node embedding (node2vec)**.
- Achieved an **accuracy of up to 97%** through rigorous evaluation using **bootstrap sampling**.
- Conducted **comparative analysis of multiple machine learning models (Random Forest, AdaBoost, SVM1)** to identify and implement the most efficient solution, **enhancing overall system efficiency**.
- **Coordinated a team of 4 data scientists** in the development and implementation phase.

DRUG VERIFICATION SYSTEM

Sep 2023

- Processed **over 100,000 drug reviews** from a database of over **200,000 entries** using a **Python-based system**.
- Leveraged **advanced NLP techniques and sentiment analysis** to extract insights for pharmaceutical safety and regulatory compliance.
- **Optimised data pipelines**, resulting in a **40% reduction in processing time** and enabling faster identification of harmful medications.
- **Enhanced verification accuracy to 95%**.
- **Increased the identification of misuse cases by 30%** through the integration of sentiment analysis, providing crucial regulatory insights.

SKILLS & INTERESTS

Skills: Programming & Development: Python, Web development (HTML, CSS, Bootstrap, Django), Git & Version Control (GitHub), APIs Integration, Agile & Scrum Methodologies, Machine Learning Algorithms (Random Forest, SVM, Decision Tree, NLTK), Data Preprocessing (Pandas, NumPy, Scikit-Learn), Data Visualization (Matplotlib); Databases & Data Management: SQL (MySQL);
Soft Skills: Leadership & Team Collaboration, Problem-Solving & Critical Thinking, Effective Communication & Adaptability

CERTIFICATES

- Using Databases with Python, University of Michigan (Coursera) • 2025 • SQL, Python, Database Queries, Data Management
- AWS Cloud Foundations (AWS Academy) • 2023