

Sowbagya Sivakumar

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🔗 github.com/sowbagya-049

EDUCATION

MSc-Decision and Computing Science

Coimbatore Institute Of Technology
Current CGPA:9.17

07/2023 – present | coimbatore, India

Grade 12

Bharathi Matric HR.SEC School
Grade Percentage: 87%

06/2022 – 03/2023 | palladam, India

PROJECTS

Air Pollution Analysis

Tool Used : Python (Pandas, NumPy, Matplotlib, Seaborn)

- This project focuses on exploring and visualizing air quality data to uncover pollution trends and assess environmental impact.
- It analyzes key pollutants like **PM2.5, PM10, NO₂, SO₂, CO, NH₃, and O₃** across different regions and time periods using **Python, Pandas, Matplotlib, and Seaborn**.
- Through exploratory data analysis (EDA), the project identifies highly polluted areas, major pollutant contributors, and patterns over time, offering valuable insights for environmental awareness and policy-making.

NYC Yellow Taxi Trip

Tools Used: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

- **Algorithms:** Logisitic Regression, ARIMA, K-Means
- Performed predictive analysis on NYC Yellow Taxi trip data using Python, focusing on fare prediction, demand forecasting, and trip classification.
- Applied machine learning models (Logistic Regression) achieving up to **87% accuracy** for trip type prediction.
- Implemented ARIMA time series forecasting for taxi demand with **90.1% accuracy**.
- Conducted end-to-end data preprocessing, feature engineering, outlier handling, and visualization using Pandas, Seaborn, and Matplotlib.

CERTIFICATES

- SEO Certificate Course – HubSpot Academy 📄
- NPTEL - DBMS 📄
- Computing Research Day'24- Tech Research poseter Presentation 📄
- Aignite'25- The Ultimate AI Hackthon 📄
- Predictive Analysis Workshop - Kanam'25 📄

SKILLS

- Languages: C, Python, R, SQL, Java
- Database: MySQL, Oracle
- Developer Tools: VS Code, Jupyter Notebook
- Soft Skills: Flexed, Collaborated, Scheduled efficiently, Coordinated tasks

INTERESTS

Machine Learning | Data Analytics | Data Structures and Algorithms | Digital Marketing | Data Visualization

PROFESSIONAL EXPERIENCE

Designer

Datalytics club- CIT

06/2025 – 05/2026

Online Internship in Data Science (1 month) - Code Soft 📄

Online Internship in Data Science (1 week) - Prompt InfoTech 📄