

Sumetha K

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Education

Coimbatore Institute Of Technology MSc DESIGN AND COMPUTING SCIENCES CGPA: 8.23 (4th semester)	07/2023 – 05/2028
Isha Vidhya Matric.Hr Sec School 12th grade - 84 %	06/2022 – 05/2023

Professional Experience

Event Sub-Director Literary Club - CIT	07/2025 – present
Data Science Internship  Prompt Infotech	

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: Logistic 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.

AI-Powered Meeting Intelligence Assistant

Tools Used: Python, Streamlit, HuggingFace Transformers (BART), Whisper, SpaCy, SMTP, Google Calendar API

- Built an end-to-end assistant that converts meeting audio into clean transcripts, concise summaries, and actionable tasks.
- Implemented Whisper for accurate speech-to-text, BART for abstractive summarization, and SpaCy for task extraction.
- Delivered personalized action digests per participant with export options (TXT/PDF) and multi-platform delivery via email/Slack.
- Integrated Google Calendar reminders and a manager's dashboard for task tracking and accountability.

Skills

Programming Languages:

Python, C, SQL

Tools:

VS Code, Jupiter Notebook, MS Excel

Soft Skills:

Team Work, Emotional Intelligence, Leadership

Interests

Database management | Machine Learning | Data Visualization | Data Structures And Alogrithm

Certificates

Search Engine Optimisation - Hubspot 

Melinia Hackathon - CIT

Predictive Analytics Workshop - NGP

Computing Reasearch Day'24 - CIT 

Tech Reasearch Poster Presentation