

# Sumetha K

✉ sumekuppuraj@gmail.com ☎ 9095438539 🔗 [linkedin.com/in/sumetha-k](https://www.linkedin.com/in/sumetha-k) 🐙 [github.com/sumetha30](https://github.com/sumetha30)

## Education

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

## Professional Experience

<b>Designer</b> Literary Club - CIT	07/2024 – 05/2025
<b>Data Science Internship</b>  Prompt Infotech	

## Projects

### Air Pollution Analysis

an EDA 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, NO<sub>2</sub>, SO<sub>2</sub>, CO, NH<sub>3</sub>, and O<sub>3</sub> 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.

## Skills

### Programming Languages:

Python, C, SQL, Java

### Tools:

VS Code, Jupiter Notebook, MS Excel

### Soft Skills:

Team Work, Emotional Intelligence, Leadership

## Interests

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

## Certificates

**Search Engine Optimisation - Hubspot** 

**Melinia Hackathon - CIT**

**Predictive Analytics Workshop - NGP**

**Computing Research Day'24 - CIT** 

Tech Research Poster Presentation