

# K MUKIL JANARDHANAN

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## EDUCATION

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**M.Sc Decision and Computing Sciences,**  
*Coimbatore Institute of Technology*

2023 – present

## SKILLS

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**Programming Languages:** Python, C, Java, R.

**Developer Tools:** Jupyter Notebook, MS Excel, VS Code

**Soft Skills:** Communication, Problem Solving, Team Collaborations, Logical Thinking

## INTERESTS

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- Machine Learning
- Database Management
- Gen AI
- Data visualization
- Software and Web Development

## PROJECTS

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### Weather Forecasting

- Technologies Used: Java, MySQL, OpenWeatherMap API, Java Swing, JSON
- Developed a Java-based application that retrieves and displays real-time and historical weather data using the OpenWeatherMap API, with secure API key handling and location management.
- Integrated MySQL for storing weather data and implemented a user-friendly interface using Java Swing for input, visualization, and analysis of weather parameters.
- Included features like customizable units, data refresh, error alerts, and scalable architecture for future enhancements such as predictive analytics and notifications.

### Real Estate Market Analysis

- Technologies Used: Python, Pandas, NumPy, Scikit-learn, Statsmodels, Matplotlib, Seaborn
- Performed end-to-end analysis of house sales data using time series forecasting (SARIMA, Exponential Smoothing), stationarity checks (ADF Test), and seasonal decomposition to predict pricing trends.
- Implemented classification models including Linear Discriminant Analysis (LDA) and Logistic Regression with feature selection (ANOVA F-value) to categorize properties based on price ranges.
- Conducted dimensionality reduction (PCA), factor analysis, and clustering (K-Means, Hierarchical) to uncover patterns in housing features and buyer segments, supported by rich visualizations and interpretability techniques.

## CERTIFICATES

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### NPTEL

Python for Data Science  
Cloud Computing

### Swayam

Database Management System