




# Kiruthika M


## Data Science Specialist

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### PROFILE

As a passionate and determined Data Science professional returning after a career gap, I am eager to leverage my expertise in data analysis, machine learning, and statistical modeling to drive impactful insights. I worked on projects involving data cleaning, predictive modeling, and data visualization, achieving measurable improvements in decision-making processes. I bring strong skills in Python, SQL, and machine learning algorithms.

### EDUCATION

#### BE(Electronics and Communication Engineering)

2014 – 2018

Muthayammal College of Engineering with 71%

#### Master of Data science

August 2024 – January 2025

IIT Madras- GUVI

### SKILLS

Python, Pandas, Excel, SQL, Data visualisation, PowerBI, Statistics, ML Algorithms, Deep Learning, NLP, Computer vision, Streamlit Deploy, AWS Cloud computing, GIT hub

### PROJECTS

#### ChefMate: Restaurant Clustering & Cooking Guide

##### Application

Skills - Data cleaning and preprocessing, ML clustering, AWS(S3, RDS, EC2), Streamlit, Chatbot integration for user interaction

- Analysed the raw datasets, creating S3 bucket and pulled the datasets and connecting AWS S3 service.
- Cleaned and pre-processed the raw data, creating database pushed and pulled the dataset by connecting AWS RDS service.
- Built ML Clustering models and evaluated the performance of Silhouette Score of 0.90 indicating strong performance.
- Deployed streamlit application for recommended restaurants based on user input, such as cuisines & created generative ai user chatbot assistant, finally deployed in AWS EC2 service.

#### Car Dheko - Used Car Price Prediction

Skills - Data Cleaning and Preprocessing, EDA, ML models, Streamlit

- Analyzed the given datasets, cleaned and preprocessed the raw data nearly 9,000 cars from CarDheko and additionally created required features from raw data.
- Built and deployed ML Regression models and evaluated the performance of R2-score value 0.87 indicating strong performance.
- Deployed the streamlit application by using best model that predicts the fare prices of used cars as user-friendly.

#### Microsoft : Classifying Cybersecurity Incidents with Machine Learning

Skills - Data Preprocessing, ML models , Handling Imbalanced Datasets

- Analyzed the fine-tuned datasets with enhancing the efficiency of Security Operation Centers (SOCs).
- Cleaned and preprocessed the data and handled imbalanced techniques.
- Built and deployed ML Classification models and evaluated the performance of Precision value 0.80 indicating strong performance for the true positive (TP), benign positive (BP) or false positive (FP) based on historical evidence and customer responses.

#### DataSpark: Illuminating Insights for Global Electronics

Skills - Data Cleaning and Preprocessing, EDA, Python, SQL, PowerBI

- Analyzed the customer, product, sales, and store of real time data.
- Cleaned and preprocessed the raw data and stored the preprocessed data in a SQL database, created SQL queries.
- Implemented the interactive dashboards in PowerBI using SQL queries by connecting the SQL database and collaborated insights and actionable recommendations.

#### Dominos - Predictive Purchase Order System

Skills - Data cleaning and preprocessing, EDA, Time series forecasting

- Analysed the historical datasets, cleaned and preprocessed the raw data neraly 50,000 from Dominos and additionally created required features for time series.
- Built and deployed Timeseries Forecasting models and evaluated the performance of MAPE value 0.0097 indicating strong performance.
- Optimized the sales order, ingredients required and purchase order by forecasting future data.

#### Redbus Data Scraping with Selenium & Dynamic Filtering using Streamlit

Skills - Web Scraping using Selenium, Python, Streamlit , SQL

- Scraped the real time data of Redbus nearly 8,000 using selenium for collecting, analyzing, and visualizing bus travel data.
- Cleaned and pre-processed the raw data and stored the scraped data in a SQL database.
- Deployed the streamlit application by using SQL queries to display and filtering the scraped data as user-friendly for the passengers.