

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%

12th

2013 – 2014

St.Mary's Girls' Hr.Sec.School with 91%

10th

2011 – 2012

St.Mary's Girls' Hr.Sec.School with 82%

SKILLS

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

COURSES

Data Science, GUVI - IIT MADRAS

08/2024 – 01/2025

PROJECTS

Redbus Data Scraping with Selenium & Dynamic Filtering using Streamlit, Skills - Web Scraping using Selenium, Python, Streamlit , SQL

- Analyzed to revolutionize the transportation industry by providing a comprehensive solution for collecting, analyzing, and visualizing bus travel data.
- Utilized Selenium for web scraping, this project automates the extraction of detailed information from Redbus, including bus routes, schedules, prices, and seat availability.
- Deployed the streamlit application for dynamic filtering as user-friendly.

DataSpark: Illuminating Insights for Global Electronics,

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

- Analyzed the customer, product, sales, and store data's that will enhance marketing strategies, optimize inventory management, and improve sales forecasting.
- Cleaned the given datasets and created queries in SQL. Implemented data visualization dashboards in powerBI and collaborated insights into actionable recommendations.

Car Dheko - Used Car Price Prediction, Skills - Data Cleaning and Preprocessing, EDA, ML models, Streamlit Application

- Analyzed the given datasets, cleaned and pre-processed the raw data to ensure its quality and usability.
- Built and deployed machine learning models of regression for prediction.
- Optimized machine learning models through hyperparameter tuning and feature engineering.
- Deployed the streamlit application that predicts fare prices of used cars as user-friendly.

Microsoft : Classifying Cybersecurity Incidents with Machine Learning, Skills - Data Preprocessing, ML Classification

Techniques, Handling Imbalanced Datasets, Models Training

- Analyzed the fine-tuned datasets with enhancing the efficiency of Security Operation Centers (SOCs).
- Cleaned and pre-processed the data to ensure its quality and usability, handled imbalanced techniques.
- Built and deployed machine learning models for classification and prediction for the triage grade of cybersecurity incidents as true positive (TP), benign positive (BP), or false positive (FP) based on historical evidence and customer responses.

Dominos - Predictive Purchase Order System,

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

- Analysed the datasets, cleaned and pre-processed the raw data to ensure its quality and usability and implemented data visualization.
- Built and deployed time series forecasting models and predicting future values using historical data.
- Optimized the process for ordering ingredients by predicting future sales and creating a purchase order.

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 given datasets and pulled the datasets by connecting AWS S3 service.
- Cleaned and pre-processed the raw data than pushed and pulled the dataset by connecting AWS RDS service.
- Deployed machine learning models for clustering and built streamlit for recommended restaurants based on user input, such as cuisines & created generative ai user chatbot assistant, finally deployed in AWS EC2 service.