

MADHUSUDHANAN S

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PROFESSIONAL SUMMARY

Data Scientist with hands-on experience in data analytics, machine learning, and data visualization through industry simulations. Skilled in predictive modeling, exploratory data analysis, and statistical techniques. Proficient in Python, SQL, and machine learning algorithms, with a strong ability to translate complex data into actionable insights

EDUCATION

Postgraduate Program in Data Science and Machine Learning , Intellipaat	2023 - 2024
Master of Business Administration , Sastra University	2017 - 2019

SKILLS

Data Science and Analytics:	Data Analysis, Predictive Modeling, Exploratory Data Analysis (EDA)
Machine Learning:	Supervised, Unsupervised Learning, Model Optimization, Feature Engineering
Programming and Databases:	Python, SQL, Pandas, NumPy, Scikit-learn

PROJECTS

Customer Churn Analysis: Developed a predictive model to analyze customer churn for XYZ Analytics, achieving 0.85 accuracy with a Random Forest model. Conducted feature engineering and model optimization to improve predictive performance.

Airline Customer Behavior Prediction: Built a machine learning model to analyze British Airways' customer data and identify key factors influencing purchase behavior. Achieved a precision of 0.86 and a recall of 0.98 before implementing web scraping. Scraped and analyzed customer review data, uncovering actionable insights for marketing strategies.

Predicting Flight Booking Price: Performed Exploratory Data Analysis (EDA) to understand key factors affecting flight prices. Built a Random Forest Regressor model, achieving a Mean Absolute Error (MAE) of 1109 and a Root Mean Squared Error (RMSE) of 2783.

AI and Data Analysis for Grocery Retail: Conducted Exploratory Data Analysis (EDA) for Gala Groceries as part of Cognizant's AI-focused job simulation. Built a Random Forest Regressor to predict key retail metrics, achieving a Mean Squared Error (MSE) of 0.25, Mean Absolute Error (MAE) of 0.38, and Root Mean Squared Error (RMSE) of 0.5 on test data.

CERTIFICATIONS

Google Advanced Data Analytics:

<https://www.coursera.org/account/accomplishments/specialization/certificate/LZKS6LC8XBHR>

SQL for Data Analytics:

<https://www.udemy.com/certificate/UC-7813685d-b3ed-4106-afba-0305200c93fa>