

MADHUSUDHANAN S

+91-9943839266 ◇ Theni, Tamil Nadu

rammadhu108@gmail.com ◇ <https://github.com/Madhusudhanan2512>

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, 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
Bachelor of Commerce , SRM University	2014 - 2017

SKILLS

Data Science and Analytics: Inferential Statistics, Predictive Modeling, Exploratory Data Analysis (EDA),

Machine Learning: Supervised and Unsupervised Learning

Programming and Databases: Python, Pandas, NumPy, Scikit-learn

PROJECTS

AI Image generation Web App: Built an AI-powered image generation platform leveraging Stable Diffusion for text-to-image synthesis. Designed a FastAPI backend to manage prompt requests and integrated it with a responsive HTML/CSS/JS frontend. Used AI-assisted coding tools to generate and refine code efficiently, demonstrating strong ability to orchestrate AI systems for creative application development..

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.

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.

PORTFOLIO WEBSITE

Link:

<https://portfolio-homepage-nqdqvgktnrsuzatjxrah.streamlit.app/>