Agashthiya M

Data Scientist | Data Analyst

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agashthiyamalliah99@gmail.com| +917708286656 | LinkedIn: linkedin.com/in/agashthiya-malliah |GitHub: github.com/Agashthiya| Bangalore, India

Professional Summary

Data Scientist and Analyst skilled in transforming data into actionable insights using Python, SQL, and BI tools. Experienced in predictive modeling, statistical analysis, and time-series forecasting. Built and deployed ML models for customer churn, insurance purchase prediction, and demand forecasting, improving business decision-making and campaign effectiveness. Adept at translating complex data into clear, actionable recommendations for stakeholders.

Skills

- **Programming & Data Handling**: Python (Pandas, NumPy), SQL
- **Machine Learning & AI**: Regression, Classification, SVM, XGBoost, Random Forest, Time-Series Forecasting, SMOTE
- **Visualization & BI**: Power BI, Tableau, Matplotlib, Seaborn
- **Data Science Workflow:** EDA, Feature Engineering, Model Evaluation, Hyperparameter Tuning
- **Other tool**: Git

Experience

Data Science Consultant Intern | Rubixe

- Designed and optimized machine learning models (Decision Trees, XGBoost) to support customer segmentation and improve marketing strategies.
- Performed data cleaning, preprocessing, and feature engineering using Python & SQL, ensuring high-quality datasets and faster model development.
- Conducted model evaluation and hyperparameter tuning to enhance the reliability and performance of predictive models.
- Delivered insights and visual reports to stakeholders through interactive dashboards using Power BI and Tableau, supporting data-driven decision-making.

Projects

Telecom Churn Prediction

- Predicted customer churn with 95% accuracy and 0.84 F1-score, enabling proactive retention strategies.
- Applied SMOTE to handle imbalance and optimized thresholds for better business relevance.
- Tech: Python, XGBoost, SMOTE, Model Tuning

Bicycle Rental Demand Forecasting

- Built time-series and regression models achieving 0.89 R^2 for daily rental predictions.
- Leveraged weather and seasonal data to forecast demand for resource planning.
- Tech: Python, SVR, XGBoost, Time-Series

House Price Prediction Model

- Developed XGBoost regression model achieving 0.90 R^2 using 79 property features.
- Supported pricing insights for real estate datasets by integrating multiple data sources.
- Tech: Python, XGBoost, Hyperparameter Tuning

Insurance Purchase Prediction

- Predicted likelihood of insurance product purchase with 93% accuracy, improving marketing targeting.
- Enhanced model performance using resampling and feature selection techniques.
- Tech: Logistic Regression, Decision Trees, Resampling

Heart Disease Risk Prediction

- - Built an SVM-based classifier achieving 92% F1-score, aiding early detection insights for healthcare datasets.
- - Optimized features and preprocessing to enhance prediction reliability.
- - Tech: Python, SVM, Feature Engineering

Education

Electrical and Electronics Engineering|Mepco Schlenk Engineering College | Anna University Affiliated-CGPA: 8.2 / 10

Certifications

- Certified Data Scientist – IABAC | Valid: Jun 2025 – Jun 2028
- Certified Data Scientist – Gold Category | NASSCOM FutureSkills Prime (Govt. of India)
- Certified Data Scientist – Datamites Training Program
- Certified Data Science Consultant – Rubixe (Internship Certificate) | Mar 2025 -Aug 2025