Andal N

Data Scientist | Data Analyst

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Professional Summary

Aspiring Data Scientist and Data Analyst with a strong analytical mindset and hands-on internship experience in machine learning, data preprocessing, and business insight generation. Proficient in Python, SQL, and statistical methods to build predictive models and analyze structured datasets. Skilled in transforming raw data into actionable insights through EDA, visualization, and reporting. Eager to contribute to data-driven decision-making and continuous innovation in real-world business environment.

Skills

- Programming : Python (NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn), Flask, SQL
- Visualization : Tableau, Power BI
- Techniques : Data Analysis, Machine Learning, Deep Learning, Time Series Forecasting
- Concepts : Linear and Logistic Regression, Clustering, Classification
- Tools : Jupyter Notebook, Google Colab, Git, GitHub
- Other : Applied Statistics, Statistical Analysis

Internship Experience

Data Science & Analytics Intern | Rubixe

- Extracted, cleaned, and analyzed structured datasets using SQL, Pandas, and Excel to uncover business trends and performance gaps.
- Designed interactive dashboards and visualizations using Tableau, Power BI, and Python (Matplotlib, Seaborn) to communicate insights clearly.
- Performed exploratory data analysis (EDA) and feature engineering to support model development and insight generation.
- Built ML models (XGBoost, Decision Tree) to forecast sales and predict churn using feature engineering.
- Prepared and delivered insights through visual reports and dashboards, enabling data-driven decisions across teams.

Projects

Heart Disease Risk Prediction

- Built predictive model using SVM, Random Forest, and XGBoost; achieved 91.7% accuracy.
- Identified key risk factors to support early diagnosis and preventive strategies.
- Tech: Scikit-learn, Random Forest, KNN, Feature Selection,GridSearchCV..

Insurance Product Conversion Prediction

- Developed classifier with Random Forest and XGBoost; handled imbalance using SMOTE.
- Achieved 96.3% accuracy; enabled targeted marketing insights.
- Tech: Ensemble Modeling, SMOTE, Accuracy Score, Classification Report.

House Price Prediction – Ames Dataset

- Applied XGBoost regression on 79 features; achieved R^2 = 0.90, RMSE = 27,015.
- Explained pricing trends based on property type and location features.
- Tech: SVM, Ordinal Encoding, Outlier Removal, Log Transformation, MAE, R^2.

Bike Rental Demand Forecasting

- Forecasted demand using time-aware XGBoost models; achieved R^2 = 0.89, RMSE = 649.
- Captured seasonal, weather, and calendar-based usage trends.
- Tech: XGBoost Regressor, Bagging Regresor, Feature Rescaling.

Churn Risk Scoring – Telecom Domain

- Built churn model using SVM, Decision Tree, XGBoost; handled imbalance with SMOTE.
- Achieved F1 score of 0.84; identified high-risk customer segments for retention.
- Tech: Decision Tree Classifier, XGBoost Classifier, Precision-Recall curve, ROC Curve.

Education

Electrical and Electronics Engineering-K.L.N College of Engineering
Anna University Affiliated
CGPA: 7.1

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) | Dec 2024 – Jun 2025