Bhagavan Devadi

Data Scientist

Kakinada +918790153275 bhagavan.devadi@gmail.com

Portfolio | LinkedIn | Scaler | HackerRank | LeetCode

Professional Summary

Data Scientist with 3 years of experience in EDA, data preprocessing using Python, SQL, and developing predictive models, applying supervised and unsupervised learning techniques, experiment tracking and model management with MLflow, creating insightful dashboards with Tableau, and knowledge on deep learning techniques with TensorFlow, Keras. Strong analytical foundation with expertise in scalable data science solutions and actionable insights with additional knowledge in cloud platforms such as AWS and Google BigQuery.

Skills

- **Languages:** Python, SQL
- **Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, NLTK, Scikit-Learn, TensorFlow, Keras, MLflow
- **Data Analysis:** EDA, Hypothesis Testing, A/B Testing, Feature Engineering, CRM Analysis, RFM Segmentation
- **Machine Learning:** Predictive & Prescriptive Modeling, Regression, Classification, Clustering, Time Series Forecasting, Anomaly Detection.
- **Tools and Platforms:** Tableau, MuleSoft, Looker Studio, Jupiter Notebook, Google Colab, PyCharm, Docker
- **Cloud:** AWS (Sagemaker, Bedrock, ECS, ECR, EC2, S3, VPC), Google BigQuery

Experience

Capgemini

Sept 2022 – Present

Associate Consultant (Data Science)

- Conducted exploratory data analysis (EDA) and data visualization using Python (Pandas, NumPy, Seaborn, Matplotlib) to extract actionable business insights.
- Designed and validated predictive models with Scikit-learn, TensorFlow, and Keras, applying feature engineering, hyperparameter tuning, and cross-validation to optimize performance.
- Built proof-of-concept ML solutions performing regression, classification, clustering, RFM segmentation, and time series forecasting to support business strategy.
- Implemented A/B Testing and Hypothesis Testing to measure the impact of business initiatives and inform decision-making.
- Designed and developed interactive dashboards in Tableau to track key business metrics and drive data-driven decision-making.
- Collaborated with Data Science teams to operationalize ML models, and documented solution architectures and POCs for reusability.

Projects

Medical Insurance Cost Prediction

- Engineered a Health Risk Index and applied K-Means clustering to segment customers into low, medium, and high-risk cohorts, boosting model interpretability and pricing insights.
- Developed a Random Forest regression model to predict annual medical cost with high accuracy ($R^2 \approx 0.89$, RMSE reduced by ~8%), outperforming XGBoost and LightGBM.
- Designed a rule-based premium calculation framework integrating predicted costs, cluster risk, and plan type to simulate real-world insurance pricing strategies.

Bank Credit Card Customer Churn Prediction

- Performed RFM-based customer segmentation and forecasted 12-month transaction trends for each segment using SARIMA, enabling early identification of declining engagement.
- Applied simple NLP techniques (tokenization + TF-IDF) on customer feedback to extract themes like service dissatisfaction and high charges, improving feature richness.
- Built churn prediction models (Logistic, Random Forest, XGBoost, LightGBM) where LightGBM achieved the best performance, improving recall for the churn class by ~14%.

Education

Pragati Engineering College

2018 - 2022

B.Tech in Electronics and Communication Engineering; 8.72 CGPA