MAHADEV PANDHARPOTE

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LinkedIn | Portfolio | GitHub

Professional Summary

Data Scientist with strong hands-on experience in Machine Learning, Data Analytics, and Statistical Modeling. Proven ability to work with large datasets, perform exploratory data analysis, engineer features, and build predictive models that support business decision-making. Experienced in collaborating with stakeholders to translate business requirements into data-driven solutions and communicating insights through dashboards and reports. Proficient in Python, SQL, Power BI, and end-to-end ML project development.

Technical Skills

Programming: Python, SQL
Machine Learning: Regression, Classification, Clustering, Random Forest, XGBoost, Scikit-learn
Deep Learning: Neural Networks (CNN, RNN – foundational), TensorFlow , NLP
Statistics & Analytics: Probability, Hypothesis Testing, Descriptive & Predictive Analytics
Data Analysis: Pandas, NumPy, Exploratory Data Analysis (EDA), Feature Engineering, Data Cleaning
Visualization & Reporting: Power BI, Matplotlib, Seaborn, Excel Dashboards
Deployment: Streamlit, Flask (ML Application Deployment)
Databases: PostgreSQL, SQLite
Collaboration: Stakeholder Communication, Business Requirement Analysis, Cross-functional Collaboration

Education

Bachelor of Technology – Computer Engineering 2021 – 2025
Vilasrao Deshmukh Foundation Group of Institutions, Maharashtra

Projects

Telecom Customer Churn Prediction – ML Web Application GitHub | Live Demo
- Worked on a large-scale telecom dataset with **243K+ customer records** to analyze churn behavior and retention-risk
- Collaborated with a business-oriented problem statement to identify key churn drivers such as tenure, usage patterns, and service plans
- Performed extensive data cleaning, exploratory data analysis, and feature engineering to improve signal quality
- Built and evaluated multiple ML models, selecting **XGBoost** with SMOTE handling for class imbalance, achieving **ROC-AUC of 0.91**
- Applied **SHAP explainability** to communicate model insights and feature impact to non-technical stakeholders
- Deployed a real-time Streamlit web application enabling stakeholders to make data-driven retention decisions

Uber Demand Forecasting & Analytics GitHub
- Analyzed historical ride data to understand demand fluctuations across time, location, and peak hours
- Conducted exploratory and targeted data analysis to uncover trends, seasonality, and operational bottlenecks
- Engineered temporal features (hour, day, peak windows) to support demand forecasting models
- Developed Random Forest regression models to estimate ride demand and support operational planning
- Presented insights using visual analytics to support stakeholder discussions around resource optimization

European Soccer Performance Analysis – SQL, Python, Power BI GitHub
- Collaborated on business-style analytical questions related to team and player performance across seasons
- Designed complex SQL queries using CTEs, joins, and aggregations to analyze large relational datasets
- Performed data quality assessments including handling missing values, duplicates, and inconsistent records
- Conducted Python-based statistical analysis to identify performance trends and correlations
- Built interactive Power BI dashboards to communicate insights to stakeholders through visual storytelling

Customer Segmentation using RFM Analysis – Power BI GitHub
- Translated business requirements into an RFM-based customer segmentation framework
- Cleaned and transformed transactional data using Power Query for analytical readiness
- Implemented percentile-based RFM scoring using DAX to classify customers into actionable segments
- Delivered interactive dashboards enabling stakeholders to design targeted marketing and retention strategies

Additional Information

Certifications: Advanced Data Science with Microsoft Power BI – AI Adventures, Pune
Languages: English, Hindi, Marathi
Strengths: Stakeholder Collaboration, Analytical Thinking, Data Storytelling, Problem Solving, Teamwork