MAHADEV PANDHARPOTE

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PERSONAL SUMMARY

Data Science professional with strong expertise in Machine Learning, Data Analysis, and Data Visualization. Experienced in building end-to-end predictive models, creating actionable dashboards, and developing automated data workflows. Skilled in Python, SQL/PostgreSQL, and statistical methods to extract insights, improve processes, and drive data-backed decisions. Proven ability to understand business problems, translate data into meaningful outcomes, and deliver solutions that create measurable impact.

EDUCATION

Bachelor of Technology in Computer Engineering **November 2021 – October 2025**
Vilasrao Deshmukh Foundation Group of Institution and Technology, Latur, Maharashtra

TECHNICAL SKILLS

Programming Languages: Python, SQL
Machine Learning: Supervised, Unsupervised , Reinforcement Learning , Scikit-learn, TensorFlow, NLP, Deep Learning
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Exploratory Data Analysis
Tools & Platforms: Power BI, Microsoft Excel Streamlit, Flask, Git, Github, Jupyter Notebook
Core Competencies: Feature Engineering, Data Preprocessing, Model Deployment, Web Scraping ,BI Dashboard

PROJECTS

Telecom Customer Churn Prediction – Live ML Web Application **GitHub | Live Demo**
- Developed end-to-end machine learning pipeline on 243K customer records achieving **ROC-AUC of 0.91** using XGBoost with comprehensive feature engineering and SMOTE for imbalance handling
- Implemented SHAP (SHapley Additive exPlanations) for model interpretability, enabling stakeholders to understand feature importance and prediction rationale
- Deployed real-time prediction dashboard using Streamlit with interactive UI, publicly accessible for business users
- **Tech Stack:** Python, Pandas, XGBoost, SMOTE, SHAP, Streamlit

Uber Demand Forecasting & Analytics Dashboard **GitHub**
- Performed comprehensive EDA on large-scale ride-sharing dataset, identifying demand patterns, peak hours, and geographic trends through advanced data cleaning and anomaly detection
- Engineered temporal and spatial features to capture ride demand dynamics across different time periods and locations
- Built Random Forest regression models for demand forecasting and created interactive dashboards using Matplotlib and Seaborn for business intelligence
- **Tech Stack:** Python, Pandas, Random Forest, Matplotlib, Seaborn

European Soccer Performance Analysis (SQL, Python, Power BI) **GitHub**
- Conducted end-to-end analysis on a large European soccer dataset using advanced SQL queries to evaluate team and player performance
- Performed data quality checks, handling null values, duplicates, and date normalization across multiple relational tables
- Analyzed team outcomes including wins, losses, draws, points, and seasonal goal trends using CTEs and CASE statements
- Executed Python-based statistical correlation analysis to study the relationship between defensive pressure and goals conceded
- Designed interactive Power BI dashboards showcasing team rankings, goal trends, match outcome distributions, and tactical insights
- **Tech Stack:** SQL (SQLite), Python (Pandas, SciPy), Power BI, Git/GitHub

Customer Segmentation using RFM Analysis (Power BI) **GitHub**
- Performed end-to-end RFM (Recency, Frequency, Monetary) analysis to segment customers based on purchasing behavior
- Cleaned and transformed transactional data using Power Query and designed a star schema data model for analytics
- Implemented percentile-based RFM scoring using DAX and classified customers into Champions, Loyal, At Risk, and Lost segments
- Built an interactive Power BI dashboard with KPI cards, scatter plots, trends, and slicers to deliver actionable business insights
- **Tech Stack:** Power BI, DAX, Power Query, Data Modeling

ADDITIONAL INFORMATION

Business Tools: Power BI for business reporting and dashboard creation, Microsoft Excel
Languages: English , Marathi , Hindi
Interests: Building end-to-end ML solutions, Data storytelling, Business analytics