# 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 , India

## 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, Beautiful Soup
**Tools & Platforms:** Power BI, Microsoft Excel , Streamlit, Flask, Git, Github, Jupyter Notebook
**Core Competencies:** Feature Engineering, Data Preprocessing, Hypothesis Testing, Model Deployment, Web Scraping, BI Dashboard, Statistics

## 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
– 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

**CERTIFICATIONS:** Advance Data Science With Microsoft Power BI Certification AI Adventures, Pune, Maharashtra
**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