Mahadev Bharat Pandharpote

Data Scientist / Data Analyst

Pune, Maharashtra, India

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Data Science professional skilled in Machine Learning, Data Analysis, and Data Visualization, with hands-on experience delivering predictive models, insight-driven dashboards, and automated data pipelines. Strong foundation in Python, SQL/PSQL, and statistical analysis. Proven ability to turn raw data into business-ready insights, optimize workflows, and solve real-world problems using analytical and ML techniques.

Projects

Scream Detection & Emergency Alert System (Final Year Project)

- Developed an AI-powered safety system using TensorFlow to classify scream vs non scream audio with 92% accuracy.
- Built a full stack Flask application integrating user authentication, audio uploads, and realtime detection workflows.
- Implemented automated 5 second live audio capture, preprocessing pipelines, and waveform generation.
- Integrated WhatsApp (Twilio) API to send instant emergency alerts with live location when a scream is detected.
- Logged alerts, confidence scores, and user activity in PostgreSQL for audit and analysis.

IPL Data Science & Predictive Analytics

- Performed in-depth EDA on 15+ seasons of IPL data to analyze player performance, team efficiency, win probability factors, and match trends.
- Built 5+ visualization dashboards using Pandas, Matplotlib, and Seaborn to present strengths, weaknesses, and KPIs.
- Developed predictive ML models (Regression & Classification) that achieved 78%+ accuracy in forecasting match outcomes and player performance.

Uber Ride Demand Forecasting & Trend Analysis

- Analyzed 100,000+ ride records to uncover demand patterns, peak hours, and high-density pickup zones.
- Performed data cleaning & feature engineering, improving dataset quality by 35% and enabling accurate modeling.
- Built interactive dashboards using Matplotlib/Seaborn to present hourly demand, traffic hotspots, and ride trends.
- Implemented Random Forest Classifier & Regressor models, achieving
- 82% accuracy for ride outcome prediction
- RMSE improvement of 25% after hyperparameter tuning.

Technical Skills

• Programming: Python, SQL, HTML, CSS

• Machine Learning: Regression, Classification, Clustering, Feature Engineering, TensorFlow

• Data Analytics: EDA, Visualization (Matplotlib, Seaborn), Pandas, NumPy, Power BI

• Frameworks: Flask, Scikit learn

• Databases: PostgreSQL, MySQL

• Tools: Git/GitHub, Jupyter Notebook, VS Code, MS Office

Education

Bachelor of Technology (Computer Engineering)

Vilasrao Deshmukh Group of Institutions, Latur

CGPA: 7.5 | Year: 2025