SAKSHI KSHIRSAGAR

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PROFILE SUMMARY
Data Science professional with hands-on experience in building machine learning models, predictive analytics, and dashboard solutions to support business decision-making. skilled in developing machine learning models, data-driven dashboards, and predictive insights to solve real-world business problems. Experienced in end-to-end project lifecycles—from data preprocessing and feature engineering to model deployment and performance evaluation. Demonstrated ability to translate complex data into actionable strategies through projects in telecom churn, fraud detection, sentiment analysis, and BI dashboards.

PROJECTS
1. **Customer Churn Prediction – Telecom | Python, Scikit-Learn, XGBoost**
   - Developed an end-to-end ML pipeline achieving 0.84 ROC-AUC, identifying high-risk customers with 80% accuracy.
   - Engineered features and conducted hyperparameter tuning to improve model stability and generalization.
   - Integrated Revenue-at-Risk analysis to quantify business impact, supporting retention strategy decisions.

2. **Credit Card Fraud Detection – Imbalanced Data | Python, SMOTE, Logistic Regression:**
   - Built fraud classification model on highly imbalanced financial transactions using SMOTE and ensemble methods.
   - Improved Recall of fraudulent cases, reducing false negatives and enhancing anomaly detection reliability.
   - Implemented evaluation using Precision, Recall, and F1-Score to ensure real-world applicability.

3. **Amazon Review Sentiment Analysis (NLP Web App) | Flask, TextBlob, VADER**
   - Created a real-time sentiment analysis web application for automated customer feedback insights.
   - Processed user input to classify sentiment polarity, improving review understanding without manual effort.
   - Deployed interface to demonstrate ML-to-product integration, enhancing accessibility for non-technical users.

4. **World Happiness Insights Dashboard | Tableau, Pandas**
   - Analyzed multi-year global datasets (150+ countries) to identify socio-economic drivers of happiness.
   - Built interactive Tableau dashboards enabling comparative insights on GDP, healthcare, corruption, and freedom.
   - Presented findings to highlight data storytelling and decision-support capability.

INITIATIVES & CONTENT CREATION
Founder & Content Creator – NeurvAI
   - Established an AI-learning platform to educate beginners in Python, Machine Learning, and AI concepts.
   - Designed tutorial content and community resources promoting self-learning and industry awareness.
   - Demonstrated leadership, communication, and knowledge-sharing outside academic environment.

TECHNICAL SKILLS
   - Programming: Python, SQL, Java
   - **Machine Learning:** Regression, Classification, Clustering, NLP
   - **Libraries & Tools:** Pandas, NumPy, Scikit-Learn, TensorFlow, XGBoost, LightGBM
   - **Visualization & BI:** Tableau, Power BI, Matplotlib, Seaborn
   - **Databases:** MySQL
   - **Other:** Data Cleaning, Feature Engineering, Model Evaluation, Web Scraping

CERTIFICATION
   - Deep Learning (Coursera)
   - Problem Solving -Basic (HackerRank)
   - SQL-Basic (HackerRank)
   - Web Scraping with Python (Coursera)

EDUCATION
MCA (AI/ML) | RBU Nagpur | CGPA: 8.8 | Present
B.Sc. (CS) | JMV, Chandrapur | CGPA: 7.70 | 2024
HSC | Matoshri Mahavidyalaya | 75.83% | 2021
SSC | New India Convent High School | 67% | 2019