SAKSHI KUMARI

Python Developer | Machine Learning & Logic Enthusiast
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TECHNICAL SKILLS

- **Programming & Logic**: Core Python (List Comprehensions, Match-Case, Tuples/Sets), File I/O, OOP, Data Structures.
- **Machine Learning**: Scikit-learn, Imbalanced-learn (SMOTE), Feature Engineering, Anomaly Detection, Model Evaluation (Precision-Recall, F1-Score, ROC-AUC).
- **Data Analysis**: Pandas, NumPy, Matplotlib, Seaborn, Data Cleaning & Transformation.
- **Tools & DevOps**: Git, GitHub (Branching/Merging), VS Code, Virtual Environments (venv), Flask.
- **CS Fundamentals**: Operating Systems (Memory/Process Management), SDLC, UI/UX Principles.

KEY PROJECTS

1) FinShield – Fraud Detection System | *Python, Scikit-learn, Pandas, SMOTE, Matplotlib* | GitHub
- **Developed an end-to-end ML pipeline** to identify fraudulent financial transactions using advanced feature engineering and data scaling.
- **Resolved data imbalance** by implementing SMOTE, significantly improving the model's ability to detect rare fraud cases.
- **Optimized precision** through rigorous EDA and threshold fine-tuning, resulting in a substantial reduction in false positives.

2) CSV Cleaner CLI (Data Converter) | *Python (Core), JSON, Git* | GitHub
- Built a Command Line Interface (CLI) tool to sanitize messy CSV files and convert them into structured JSON.
- Implemented raw string manipulation logic to handle missing values and formatting without external libraries like Pandas.
- Followed a professional Git workflow utilizing branches and structured commits to simulate real-world development.

3) Expense Tracker CLI | *Python, Tuple Structures, Match-Case* | GitHub
- Developed a terminal-based financial tool to manage transactions using Match-Case for optimized menu logic.
- Enforced data integrity by storing transaction records as immutable Tuples (ID, amount, category).

TEAM PROJECT

1) Eventora – Event Management Platform | *MERN* | Role: UI/UX Designer
- Designed intuitive UI screens and user flows for event management features.
- Improved usability and visual consistency through wireframes and design iterations.

EXPERIENCE

Research Publication | JETIR Journal | The Evolution of Sentiment Analysis in NLP | View Paper   **2025**
- Published systematic review on NLP evolution, covering the shift from lexicon-based models to Transformers (BERT/RoBERTa).
- Analyzed multimodal sentiment and audio-visual integration to improve cross-modal consistency and detection accuracy.
- Benchmarked deep learning models on major datasets (IMDb, Amazon) to address sarcasm and domain adaptability.

EDUCATION

- **Bachelor of Technology** (Computer Science and Engineering) | CGPA: 8.49 | 2023 – Present
  - *Geetanjali Institute of Technical Studies, Udaipur* | (Current Status: 3rd Year / 5th Semester)
- Senior Secondary (12th Grade) | *V.B. Balika Vidyapith School* | 2023

CERTIFICATIONS & ACHIEVEMENTS

- **Introduction to Machine Learning:** NPTEL (IIT Madras) | Oct 2024
- **Introduction to Operating Systems**: NPTEL (IIT Kharagpur) | Nov 2025
- **Object-Oriented Programming:** NPTEL (IIT Roorkee) | May 2025
- **Deloitte Virtual Internship**: Completed via Forage | July 2025