Mayank Sangwan

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LinkedIn | GitHub

B.Tech. Computer Science student specializing in **Data Science**. Skilled in **Python, Java, MySQL, R, Power BI, and Excel**. Hands-on experience in building data-driven applications through projects like **FraudVision, Flower Image Classifier**. Passionate about solving real-world problems using technology and data-driven insights.

TECHNICAL SKILLS

Programming Languages: Python, Java, R
Data Analysis & Visualization: Excel, Power BI, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow
Web Development: HTML, CSS, JavaScript, Next.js, Express.js, EJS, Flask, Jinja2
Databases: MySQL
Core CS Concepts: DBMS, Operating Systems, Computer Networks, TOC, OOPs
Tools: Git, GitHub, Visual Studio Code, Postman, Canva

PROJECTS

Mobile Sales Analysis Dashboard – Power BI

- Dynamic visuals for mobile sales by category, region, and time period.
- KPI cards for revenue, units sold, and top products.
- Filterable slicers for flexible exploration.
- Clean and responsive layout designed for business users.

GitHub: Project Link
Key Skills: Power BI, ETL

FraudVision - Credit Card Fraud Detection

- Developed a full-stack fraud detection app with single & batch predictions using Random Forest, XGBoost, Logistic Regression, and Ensemble models.
- Added user authentication and detailed prediction logs for auditability.
- Built a responsive UI with Jinja2 templates and custom CSS.
- Integrated glossary & documentation modules for non-technical users.
- Currently migrating the backend from SQLite to PostgreSQL for improved scalability.

GitHub: Project Link
Deployed: Live Link
Tech Stack: Python, Flask, Scikit-learn, HTML, CSS, Jinja2, SQLite

Flower Image Classification App

- Built a deep learning web app to classify flower images into 14 categories with high accuracy.
- Trained a CNN model using TensorFlow & Keras on a curated dataset.
- Integrated real-time preprocessing and confidence scoring for precise predictions.
- Has a Streamlit-based interface for instant uploads and visual feedback.
- Deployed for public access.

GitHub: Project Link
Deployed: Live Link
Tech Stack: TensorFlow, Keras, Streamlit, Python, NumPy

EDUCATION

Bachelor of Technology in Computer Science and Engineering (B. Tech CSE), Sep 2022 - June 2026
DIT University, Dehradun
CGPA: 8.68/10
D.A.V. Centenary Public School (Panipat)