

Shreya Asthana

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Projects

Diabetes Risk Prediction for female (Python) | [Github Link](#)

- Engineered a machine learning model to predict diabetes risk, achieving 89.73% accuracy using the Gradient Boosting Algorithm with scikit-learn.
- Addressed class imbalance in the dataset (400 non-diabetic vs. 250+ diabetic) using SMOTE, ensuring balanced model training and improving performance.
- Integrated the model into a Flask web application, allowing dynamic user input, data scaling, and prediction results to be displayed using `render_template()`.
- Used an internal module (`ml/trainer.py`) to fetch and process training data, maintaining clean separation of logic for model training, testing, and prediction.

Resume-reviewer— AI-Powered Resume Evaluator | [Github Link](#)

- Engineered a React.js frontend for PDF upload, job description input, and dynamic result rendering using `useState`, conditional rendering, and `Axios` for API calls.
- Built a Flask backend to process resumes with `pdfplumber`, securely integrate Gemini AI via `dotenv`, and generate AI-powered evaluation responses.
- Implemented logic for ATS score computation, section-wise matching, and professional HR insights using LLMs.
- Designed a clean, responsive UI with a soft pastel theme for seamless user experience.

Social Media WebApp – MaitriLok | [Github Link](#)

- Developed a social media platform with posts, likes, comments, feeds, real-time chat, and follow system in a team of 4.
- Assigned to implement the Follow/Unfollow feature and enhance chat between connected users.
- Built the follow/unfollow logic using React, Node.js, and MongoDB; integrated Socket.io for real-time messaging.
- Improved chat functionality by fetching follower/following lists to enable message exchange only between connected users.

B2B Fraud detection (Python) | [Github Link](#)

- Led a fraud detection analysis on courier billing discrepancies for a company, uncovering revenue losses.
- Executed data preprocessing (finding missing values, handled discrepancies in names and data type, created calculated measures to find expected charges) and integrated 5 datasets (Invoices, Orders, Courier Rates, Pin Code Mappings) to detect overcharging patterns.
- Identified that 95.3% of orders were overcharged, revealing systematic weight inflation and zone manipulation.

Technical Skills

Languages: Python, Java, JavaScript

Libraries/Frameworks: Scikit-learn, Pandas, NumPy, Matplotlib, Flask, React.js

ML Skills: Model training/evaluation, data preprocessing, feature engineering, EDA

Tools: Git, Jupyter, VS Code, MongoDB

Development: MERN Stack, Flask backend integration

Education

VIT Bhopal University, Sehore, Madhya Pradesh - B. Tech. 2022-2026

Computer Science and Engineering, Specialization in Artificial Intelligence and Machine Learning Cumulative

GPA: 9.07/10

Aviraj World School, Rewari, Haryana - 12th Standard 2021-2022

Percentage: 92.34%

Euro International School, Rewari, Haryana - 10th Standard 2019-2020

Percentage: 94.83%

Certifications & Training

Google Cloud Digital Leader (Google Cloud, 2024-2027), IBM Data Fundamentals (IBM Skills Build), AI Primer Certification (Infosys SpringBoard), Python (Basic) & SQL (Basic) (HackerRank), Data Science with Python (iamneo), Web Development Fundamentals (IBM SkillsBuild), MongoDB Node.js Developer path (MongoDB), Full Stack Developer MERN (SmartBridge), EFSET English Certificate (C1).

Technical Engagements

- Solved 300+ DSA problems across LeetCode, HackerRank, and GeeksforGeeks.
- Earned 5-star badges in Java, SQL, and Python on HackerRank.
- Participated in Solvit Hackathon 2025, showcasing problem-solving and collaboration skills.