Shreya Asthana

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Education

VIT Bhopal University, Sehore, Madhya Pradesh - B. Tech. CGPA: **9.05/10** 2022-2026
Computer Science and Engineering with
Specialization in Artificial Intelligence and Machine Learning

Aviraj World School, Rewari, Haryana - 12th Standard **92.34%** 2021-2022

Euro International School, Rewari, Haryana - 10th Standard **94.83%** 2019-2020

Technical Skills

Programming Languages: **Python, Java |** Frameworks/Libraries: **Flask, Streamlit, React.js |** Databases: **MySQL, MongoDB |** Frontend: **HTML, CSS (Tailwind CSS) |** Tools: **Git, GitHub, VS Code, Databricks**

Experience

SDE Intern | GenAI and full-stack development | Epilepto Systems **June,2025-Present**

- Contributing to GenAI and full-stack development projects using Python and the MERN stack
- Building LLM-powered pipelines involving semantic search, vector databases, and RAG workflows
- Developing modular Streamlit and Flask applications within Databricks for intelligent document processing
- Integrating OpenAI APIs and SQL warehouse with Databricks to enable scalable, data-driven AI solutions

Projects

Diabetes Risk Prediction for female | Machine Learning, Python, FLask | 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| Python (Flask, NLP) and React.js | Github Link

- Developed a React.js frontend to handle PDF uploads, job description input, and dynamic result rendering using useState, conditional rendering, and Axios for API communication.
- Implemented a Flask backend to extract resume data with pdfplumber, integrate Gemini AI via secure API, and generate LLM-driven evaluation feedback.
- Engineered logic for ATS score computation, section-wise matching, and professional insights using large language models (LLMs).
- Crafted a clean, responsive UI with a soft pastel theme to enhance usability and user experience.

Smart-Select: Smartphone Recommendation System | Sentiment Analysis, Python, Flask | Github Link

- Built a Smartphone Recommendation System based on Ratings and sentiment analysis of reviews of different products.
- By leveraging a dataset of over 400,000+ reviews from Amazon.com, our system processes the data to generate recommendations sorted by sentiment scores, ensuring that users receive informed suggestions based on real customer experiences.
- Designed a user-friendly interface using Flask, HTML, and CSS to allow users to select Price Range or Brand Name.

Co-Curricular Activities

SolVIT Hackathon 2025 – Participant & GenAI Lead

- Developed an economic and efficient automated hiring solution for small-scale businesses as part of a 5-member team.
- Led the integration of Generative AI and NLP to analyze candidate profiles, seamlessly connecting backend intelligence to a React-based frontend.

Peer Support & Team Lead – Machine Learning Research Project

- Guided a team of 5 in a research initiative focused on SLE detection using Affymetrix MicroArray raw data.
- Oversaw task allocation and spearheaded ML model development, with a primary focus on data preprocessing.