

Shreya Asthana

📞 91+ 8059638768 | ✉ shreya.asthana05@gmail.com | 🐙 github.com/Shreya-Asthana
| 🏆 leetcode.com/Shreya_Asthana/ | 🔗 linkedin.com/in/asthanas | 🐙 codolio.com/profile/ShreyaAsthana

Education

VIT Bhopal University, Sehore, Madhya Pradesh

- B.Tech in Computer Science and Engineering (2022-2026)
 - 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%

Projects

Smart-Select: Smartphone Recommendation System

- Developed a recommendation system leveraging a dataset of over 400,000+ Amazon reviews, ranking smartphones based on sentiment analysis.
- Designed a Flask-based web application with HTML and CSS, allowing users to filter smartphones by price range and brand for informed decision-making.
- Collaborated with a team of 5, managing project timelines and ensuring seamless integration of data processing and UI components.

Diabetes Risk Prediction for female

- Developed a Machine Learning model to predict diabetes risk using a dataset of 769 records and considered 8 features (number of Pregnancies, Glucose, Blood Pressure, Skin Thickness, Insulin, BMI, Diabetes pedigree function value and age) to predict the risk, achieving 89.73% accuracy using Gradient Boosting Algorithm.
- Addressed class imbalance (400 non-diabetic vs. 250+ diabetic) using SMOTE, balancing the data to 400-400 for fair model training.
- Optimized model performance through Grid Search Cross-Validation, improving prediction reliability.
- Built a Flask web application to provide real-time risk assessments for users.
- Containerized the application using Docker, ensuring scalability and deployment efficiency.
- Conducted Exploratory Data Analysis (EDA) with visualizations to refine feature selection and enhance model interpretability.

Stock Market Analysis and Prediction (Python & Data Science)

- Performed analysis of 2000-2024 data using python libraries including Matplotlib, seaborn, numpy and pandas
- Conducted an in-depth analysis of stock price trends for Google, Microsoft and Amazon according to data from Yahoo Finance.
- Visualized stock performance using data visualization techniques.

Achievements

- Earned 5 stars (Golden Level) in SQL and Python on HackerRank
- Solved 400+ DSA problems on LeetCode, HackerRank & GeeksForGeeks, focusing on SQL, Python, and Java.

Skills

Data Analysis & Visualization: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (MySQL), Excel, Power BI, Tableau

Programming Languages: Python, SQL

Data Handling & Tools: Google Colab, Jupyter Notebook

Version Control: GitHub

Additional

Certifications & Training: Google Cloud Digital Leader (Google Cloud, Feb 2024 - Feb 2027), IBM Data Fundamentals (IBM), Python (Basic) and SQL (Basic) (HackerRank) and EF SET English Certificate (C1 Proficient) (EF Standard English Test).

Languages: Fluent in Hindi, English