Samiksha Sengar

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EDUCATION

Dr. Virendra Swarup Group of Institute Kanpur, India

Bachelor of Computer Science; GPA: 8.26 **June 2021 - August 2024**

SKILLS SUMMARY

- **Languages**: Python, SQL, Machine Learning, Java
- **Frameworks**: Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn
- **Tools**: PowerPoint, MySQL, SQLite, Streamlit, GitHub
- **Platforms**: Jupyter Notebook, Visual Studio Code
- **Soft Skills**: People Management, Excellent communication

Profile Summary

Aspiring Machine Learning Engineer with hands-on experience in building predictive models using Python and Scikit-learn. Strong understanding of data preprocessing, exploratory data analysis (EDA), and model evaluation. Developed end-to-end ML projects including loan approval and house price prediction, with model deployment using Streamlit. Actively seeking an entry-level or internship role in AI/ML to apply analytical and problem-solving skills.

PROJECTS

Student Performance Prediction **December 25- January 2026**

- Achieved a 96% accuracy rate in forecasting student academic performance by developing and deploying a machine learning model.
- Managed data integrity by handling missing values and encoding categorical variables, enhancing quality by 33%.
- Conducted experiments with both classification and regression algorithms to identify the most suitable approach.
- Identified and comprehended key factors influencing academic performance through thorough analysis.

Loan Approval System **January 26- January 2026**

- Developed an end-to-end supervised ML pipeline KNN, Logistic Regression and Naïve Bayes to predict loan approval.
- Implemented Binary classification along with EDA, feature engineering & model evaluation (Precision, Recall & F1).
- Trained and evaluated multiple models achieved **up to 87% accuracy** on the test dataset.
- Designed and implemented a machine learning classification model to predict loan approval status based on applicant financial and demographic features.

House Price Prediction **January 26- February 2026**

- Built a machine learning linear regression model to predict house prices based on features such as location, size, number of rooms, and amenities.
- Performed data cleaning, exploratory data analysis (EDA), and feature engineering to handle missing values and outliers.
- Visualized price trends and feature importance to support data-driven insights.
- Trained and evaluated linear regression model achieved **R^2 score of 0.38** with **low RMSE** on the test dataset.

CERTIFICATES

AI & Machine Learning(Apna College) November 2026

- Mastered fundamental Python syntax, proficiently utilizing control flow, loops, functions, and data structures.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities.

Foundations: Data, Data, *everywhere* (Google) January 2026

- Developed a comprehensive understanding of the data life cycle and various stages involved in the data analysis.
- Introduced to diverse applications designed to streamline and optimize the data analysis journey, enhancing efficiency and accuracy.