

Sarthak Shandilya

Data Scientist | Python | SQL | Machine Learning | Data Analytics & Visualization | IBM Certified

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🔗 <https://sarthak-portfolio.streamlit.app>

◦ Profiles ◦

[sarthxk20](#)
GitHub

[sarthxk20](#)
LinkedIn

◦ Education ◦

Dr. Harisingh Gour Central University

Sociology & History
8.15

Bachelor of Arts
2020 – 2023

- Built a strong foundation in research, analytical thinking, and data interpretation through social science coursework.
- Developed quantitative reasoning and hypothesis-driven analysis skills applicable to data-driven problem solving.
- Transitioned into Data Science by complementing my degree with the **IBM Data Science Professional Certificate**, gaining industry-aligned training in Python, SQL, data analysis, and machine learning.

◦ Certifications ◦

IBM Data Science Professional Certificate

IBM
October 2025

- Completed a structured, industry-aligned curriculum covering Python, SQL, Pandas, Machine Learning, APIs, and Data Visualization.
- Gained hands-on experience through labs and a capstone project involving data analysis, model building, and deployment.
- Strengthened foundations in statistical methods, exploratory analysis, predictive modeling, and end-to-end data workflows.

🔗 [## ◦ Languages ◦](https://www.coursera.org/account/ac...</p></div><div data-bbox=)

English

Hindi

Summary

- **Data Scientist skilled in Python, SQL, Machine Learning, and statistical modeling**, with hands-on experience building end-to-end analytical and predictive systems.
- **Designed and deployed a SpaceX Launch Analysis Dashboard** using API data engineering, EDA, Plotly visualizations, and ML (Logistic Regression) to model mission success and uncover trends.
- Experienced in **data preprocessing, feature engineering, supervised/unsupervised learning**, model evaluation (Precision, Recall, F1-score), and scalable deployment with Streamlit.
- Adept at **transforming complex datasets into actionable insights** through dashboards, predictive analytics, and automation — with an IBM Data Science Professional Certification strengthening core DS foundations.

Projects

SpaceX Launch Dashboard

- Engineered an end-to-end data pipeline by integrating SpaceX API data with additional datasets; performed cleaning, transformation, and feature engineering to enable accurate analysis.
- Built analytical visualizations (success trends, rocket performance, launchpad efficiency) using Plotly and Streamlit to identify patterns in mission outcomes.
- Developed and evaluated a **Logistic Regression model** to predict launch success based on rocket type, launch site, and historical performance metrics.
- Deployed the dashboard on **Streamlit Cloud**, creating an interactive, user-friendly platform for exploring mission data and model predictions.

🔗 <https://spacex-launch-dashboard.streamlit.app>

Skills

Programming & Tools

Python, SQL, VS Code, Jupyter Notebook, Streamlit, IBM Cloud, Git & GitHub, Excel, Tableau, Google Colab, Power BI

Data Analysis

Data Visualization, Data Cleaning & Wrangling, Exploratory Data Analysis (EDA), Statistical Analysis, Hypothesis Testing, A/B Testing, Feature Engineering, KPI Design & Dashboard Development

Machine Learning

Supervised Learning (Classification, Regression), Unsupervised Learning (Clustering, PCA), Ensemble Models (Random Forest, XGBoost), Model Deployment & Monitoring, Hyperparameter Tuning, Cross-Validation, Model Evaluation (Accuracy, Precision, Recall, F1-score, ROC-AUC)

Libraries & Frameworks

Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Plotly, BeautifulSoup, Selenium, Requests, WordCloud, JSON, REST APIs