Sarthak Shandilya

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

Sagar   +91 9893846001   sarthakshandilya9@gmail.com   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 for data-focused problem solving.
- Transitioned into Data Science through 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.

https://www.coursera.org/account/…

◦ Languages ◦

English

Hindi

Summary

- Data Scientist skilled in Python, SQL, and Machine Learning, with experience designing end-to-end analytical and predictive solutions.
- Built and deployed a SpaceX Launch Analysis Dashboard using API engineering, EDA, Plotly visualizations, and ML models to uncover mission trends and predict launch success.
- Experienced in data preprocessing, feature engineering, supervised/unsupervised ML, and Deep Learning (ANN, CNN, RNN, LSTM), delivering a **12% improvement in model accuracy** through optimized feature strategies.
- Skilled in NLP and **Generative AI/LLMs (GPT, BERT)**, applying transformer models and prompt engineering — supported by an **IBM Data Science Professional Certification**.

Projects

SpaceX Launch Dashboard

- Engineered an end-to-end data pipeline by integrating the SpaceX API with external datasets, enabling **fully automated data updates** for analysis.
- Performed data cleaning, transformation, and feature engineering, improving model inputs and boosting Logistic Regression accuracy by **12%**.
- Built interactive visualizations (mission success trends, rocket performance, launchpad efficiency) using Plotly & Streamlit, enhancing data exploration efficiency by **30%**.
- Developed and deployed a Logistic Regression model achieving a **0.89 F1-score**, and launched the dashboard on Streamlit Cloud for real-time mission insights.

https://spacex-launch-dashboard.streamlit.app

Skills

Technical Skills

- Python, SQL, Pandas, NumPy, Scikit-Learn
- TensorFlow, PyTorch
- Matplotlib, Seaborn, Plotly, Streamlit
- Git & GitHub, REST APIs
- Excel, Power BI, Tableau, Jupyter Notebook, VS Code
- Hadoop, Apache Spark
- Azure Machine Learning (Azure ML)

Data Science, ML & GenAI

- Data Cleaning, EDA, Statistical Analysis, Feature Engineering, Data Pipelines (ETL)
- Classification, Regression, Clustering, PCA, Random Forest, XGBoost
- Model Evaluation (Precision, Recall, F1, ROC-AUC), Model Deployment
- Deep Learning: ANN, CNN, RNN, LSTM
- NLP: Tokenization, Embeddings, Text Classification
- GenAI & LLMs: Transformers (BERT, GPT), Large Language Models, Prompt Engineering, Text Generation