Harikesh Kushwaha

Location: New Delhi, Delhi

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Data Scientist

As a recent graduate with a strong foundation in **statistics** and data science, I have worked on several personal projects with real datasets using SQL and Python. In my projects, I have showcased my skills in **data cleaning**, **data visualizations**, and **modeling**. With a passion for solving complex problems and a drive to constantly learn and improve, I am excited to take on new challenges in the field of Data Science.

Technical Skills

Languages	:	Python (Proficient), SQL, JavaScript, MATLAB, C++
Frameworks	:	Scikit-learn, TensorFlow, Keras, Django, Streamlit
Libraries	:	matplotlib, pandas, NumPy, Seaborn, BeautifulSoup, Selenium, OpenCV, Statsmodels
Databases	:	MySQL, MongoDB
Dev Tools	:	VS Code, Tableau, Git, GitHub, Jupyter Notebook, Anaconda, AWS, S3
Soft Skills	:	Analytical and Problem-Solving Skills, Good Presentation Skills, Communication skills

Education

Indian Institute of Technology Delhi — New Delhi, India
Master of Science in Physics, (8.6 GPA) — *July 2021 – May 2023 (Expected)*

Banaras Hindu University — Varanasi, Uttar Pradesh India
Bachelor of Science in Physics, (8.4 GPA) — *July 2018 – May 2021*

Projects

House Prices Prediction *Python, pandas, scikit-learn, kaggle, Matplotlib, Seaborn* Source Code

- Analyzed over **80** features to predict house prices using machine learning.
- Performed **Exploratory Data Analysis** and **feature engineering** to get insight from data.
- Trained **multiple models** using scikit-learn and selected the best one by applying **grid search** and **cross-validation**. Used ensemble of the top performing models to achieve a **top 10%** ranking on Kaggle.

IBM Data Analytics Capstone Project *Python, pandas, Matplotlib, Web Scraping, API, Dashboard*

- Gathered and analyzed data from various sources, including **API** and **web scraping**. Conducted **exploratory data analysis** and **wrangling** to prepare the data for further analysis.
- Built a **dynamic dashboard** to extract valuable insights from the collected data, and effectively **communicated** the findings to others through an **engaging presentation**.

pystock *Python, portfolio theory, pytest* Source Code

- Developed **pystock**, a comprehensive **Python library** for **portfolio optimization** and management. Utilizing **object-oriented programming**, created a **user-friendly API** capable of optimizing portfolios with any number of securities.
- The library includes various models, such as the **Capital Asset Pricing Model, Single Index Model**, **Fama-French three-** and **five-factor models**, and has a suite of over **100 unit tests** written with **pytest and fixtures**, spanning more than **1500 lines of code**.
- This library shows my ability to **design and implement** a **complex project** from scratch, and develope, test and document a **Python package**.

Certifications

- Deep Learning Specialization (DeepLearning.AI) Certificate
- Machine Learning Specialization (DeepLearning.AI) Certificate
- Financial Markets (Yale University) Certificate
- Simulation Models for Decision Making (University of Minnesota) Certificate