Harikesh Kushwaha

<u>LinkedIn | Portfolio | GitHub | Kaggle</u> Email: <u>harikeshkumar0926@gmail.com | Mobile: +919838422934</u>

TECHNICAL SKILLS

Languages : Python (Proficient), SQL, 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, Unix/Linux Soft Skills : Analytical and Problem-Solving Skills, Good Presentation Skills, Communication skills

EDUCATION

Indian Institute of Technology Delhi

Master of Science in Physics, (8.6 GPA)

New Delhi, India July 2021 – May 2023

Location: New Delhi, Delhi

Banaras Hindu University

Bachelor of Science in Physics, (8.4 GPA)

Varanasi, Uttar Pradesh India July 2018 – May 2021

EXPERIENCE

Junior Data Scientist

Nuvoretail Enlytical Technology Private Limited

June 2023 – Present

 $New\ Delhi$

- Automated Amazon Bidding with Python: Developed Python scripts to automate Amazon Marketing Services bidding, resulting in a 50% reduction in manual intervention and a 20% increase in performance.
- Enhanced Log Tracking and Issue Identification with Airflow Scheduling: Leveraged Airflow DAGs for streamlined log management and rapid task issue identification, enhancing process reliability.
- Improved Bidding Accuracy with Machine Learning: Developed machine learning models and statistical algorithms to predict the optimal bid for a product resulting in cost-effective advertisement.
- Custom Flask Server Development: Designed and implemented a Flask server to facilitate team interaction and empower seamless data modification within the system.

PROJECTS

pystock

Python, portfolio theory, finance, 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**.

optionalyzer

Python, options, futures, plotly, BS model

Source Code

- Developed **optionalyzer**, a powerful **Python library** for **Options Strategy Builder** that makes it easy to create custom options trading strategies.
- Implemented the Black-Scholes Model to accurately calculate Option prices and utilized optimization techniques to find the implied volatility of the Option, enabling users to make better trading decisions.
- Leveraged **Plotly** to create an **interactive Options payoff diagram** for any date, allowing users to explore potential outcomes for different combinations of Options.

CERTIFICATIONS

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