

Harikesh Kushwaha

[LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [Kaggle](#)

Location: New Delhi, Delhi
Email: harikeshkumar0926@gmail.com | Mobile: +919838422934

TECHNICAL SKILLS

Languages : Python, SQL, MATLAB, C++
Frameworks : TensorFlow, Keras, PyTorch, Scikit-learn, Django, Streamlit
Libraries : matplotlib, plotly, pandas, Seaborn, NumPy, NLTK, BeautifulSoup, Selenium
Databases : MySQL, MSSQL, MongoDB
Dev Tools : VS Code, Git, GitHub, Tableau, Jupyter Notebook, Anaconda, AWS, Azure

EXPERIENCE

Junior Data Scientist June 2023 – Present
Nuvoretail Enlytical Technology Private Limited 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.
- **Improved Log Tracking and Issue Identification with Airflow Scheduling:** Leveraged Airflow for **log management** and **task issue identification**, resulting in **70% reduction** in time for issue identification.
- **Enhanced Bidding Accuracy with Machine Learning:** Created **machine learning** models and **statistical algorithms** to predict the optimal bid for a product yielding a **30% drop** in cost per click.
- **Development of a Flask Microservice:** Designed and implemented a Flask server to facilitate **team interaction** with the output of the algorithms, causing the decision-making time to **decrease by 50%**.

EDUCATION

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

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

PROJECTS

Digit Recognizer *Python, TensorFlow, Keras, Kaggle* [Source Code](#)

- Developed a very deep **convolutional neural network** using TensorFlow and Keras with **dropout** and **batch normalization** to improve performance.
- Achieved an accuracy of **99.48%** on the test set, securing a place in the **top 15%** on the Kaggle leaderboard.
- Deployed the app on **HuggingFace** using **Gradio** and made it available to the public. Find the app [here](#).

CelestialClassify *Python, SQL, scikit-learn, RAPIDS, Data Collection* [Source Code](#)

- **Trained** machine learning models to **accurately classify** celestial objects using data from the SDSS, achieving an accuracy of **98%**.
- Created a comprehensive dataset of **6 million** celestial objects utilizing **CasJobs** with **SQL queries**.
- Utilized **RAPIDS** to expedite GPU-based model training, while fine-tuned models using **Optuna**. Constructing an **ensemble** of top performers models to achieve superior classification accuracy.

IBM Data Analytics Capstone Project *Python, pandas, Matplotlib, Web Scraping, Web API* [Source Code](#)

- 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**.

Credit Risk Assesment *Python, pandas, scikit-learn, kaggle* [Source Code](#)

- Developed a credit **risk assessment** model by analyzing various customer features, performing data cleaning, feature engineering, and exploratory data analysis.
- Established a basic model for initial experimentation, and trained advanced models such as **LR**, **SVM**, **XGBoost**, **Catboost**. Top performing model, achieved a test AUC-ROC score of **0.97** and precision of **0.96**.

- Created an interactive **Tableau viz** showcasing my **Spotify streaming history** over several years, using **data blending** and **calculated fields** to present key insights.
- Utilized **web scraping** techniques to extract my book reading history from **Goodreads** and created an interactive **Tableau** dashboard to analyze and visualize the data.

CERTIFICATIONS

- Machine Learning Specialization (DeepLearning.AI) [Certificate](#)
- Deep Learning Specialization (DeepLearning.AI) [Certificate](#)
- IBM Data Analyst Capstone Project (IBM) [Certificate](#)
- TensorFlow: Advanced Techniques Specialization (DeepLearning.AI) [Certificate](#)