Harikesh Kushwaha

Location: New Delhi, Delhi

LinkedIn | Portfolio | GitHub | Kaggle Email: harikeshkumar0926@gmail.com | Mobile: +919838422934

Data Scientist

As a recent graduate, I have a strong foundation in **Machine Learning** and **Deep Learning**. I have worked on a number of DL projects in Python involving **Computer Vision** as well as ML projects using real wolrd data to solve real world problems.

Technical Skills

Languages	:	Python, SQL, C++
Frameworks	:	Scikit-learn, TensorFlow, Keras, Pytorch, Django, Streamlit
Libraries	:	matplotlib, pandas, NumPy, Seaborn, BeautifulSoup, Selenium, OpenCV
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

ReVision *Python, Numpy, TensorFlow, Pytorch, CLI* Source Code

- Created a personal project called **ReVision** to learn the concepts and implementation details of groundbreaking **computer vision papers**.
- Utilized popular deep learning frameworks such as **Tensorflow** and **PyTorch** to implement the architectures of seminal papers in deep learning in tasks such as **image classification**, **object detection**, **semantic segmentation**, and **image generation**.
- Developed a deep understanding of the underlying principles of deep learning and computer vision, while improving skills in **Python programming**, **machine learning**, and **deep learning**.

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

- Analyzed over **80** features to predict house prices using machine learning.
- Performed **data visualization** and **feature engineering** using Matplotlib and Seaborn, respectively.
- Trained **multiple models** using scikit-learn and selected the best one by applying **grid search** and **cross-validation**. Achieved a **top 12%** ranking on the Kaggle leaderboard.

Food Vision *Python, TensorFlow, Colab, Image Processing, Streamlit, Transfer Learning* Source Code

- Developed a deep **neural network** using TensorFlow and Keras to classify **101 categories of food**.
- Used a pretrained **EfficientNet** model to extract features from the food images, and then **fine-tuned** the model to improve its accuracy.
- Achieved an accuracy of **80%** on the test set, demonstrating the effectiveness of the approach in addressing complex image recognition problems.

Certifications

- Deep Learning Specialization (DeepLearning.AI) Certificate
- Machine Learning Specialization (DeepLearning.AI) Certificate
- TensorFlow: Advanced Techniques Specialization (DeepLearning.AI) Certificate