Harikesh Kushwaha

Location: New Delhi, Delhi

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Data Scientist

As a graduate student, I possess a research-oriented background and proficiency in cutting-edge technologies such as **Machine Learning**, **Deep Learning**, and **Computer Vision**. I am deeply passionate about AI and constantly challenge myself to stay up-to-date with emerging technologies. With excellent **problem-solving abilities** and effective communication skills, I am confident that I can seamlessly fit in this role.

Technical Skills

Languages	:	Python, SQL, C++
Frameworks	:	TensorFlow, Keras, Scikit-learn, PyTorch, Django, Streamlit
Libraries	:	matplotlib, plotly, pandas, NumPy, Scipy, OpenCV, Seaborn, BeautifulSoup, Selenium
Databases	:	MySQL, MongoDB
Dev Tools	:	Tableau, Excel, VS Code, Git, GitHub, Jupyter Notebook, AWS, Cloud
Soft Skills	:	Analytical Skills, Good Presentation Skills, Research-Oriented

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 like **LeNet**, **AlexNet**, **VGG**, **ResNet**, **Inception**, **EfficientNet**, etc.
- 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**.

Food Vision *Python, TensorFlow, Streamlit, Deployment* 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. Deployed the model on Streamlit.

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.

Certifications

- Machine Learning Specialization (DeepLearning.AI) Certificate
- Deep Learning Specialization (DeepLearning.AI) Certificate
- TensorFlow Developer Certificate in 2022: Zero to Mastery (Udemy) Certificate
- IBM Data Analyst Capstone Project (IBM) Certificate