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**. I've also worked with **NLP** ande **Computer Vision** which makes me a perfect fit.

Technical Skills

Languages	:	Python, SQL, JavaScript, MATLAB, C++
Frameworks	:	Scikit-learn, TensorFlow, Keras, Pytorch, Django, Streamlit
Libraries	:	matplotlib, pandas, NumPy, Seaborn, BeautifulSoup, Selenium, OpenCV, NLTK
Databases	:	MySQL, MongoDB
Dev Tools	:	VS Code, Tableau, Git, GitHub, Jupyter Notebook, Anaconda, AWS, S3

Projects

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**.

NLP With Disaster Tweets *Python, TensorFlow, NLP, Text Vectorization, LSTM, GRU, CNN* Source Code

- Developed NLP models to classify disaster and non-disaster tweets using **text vectorization**, various **word embeddings**, and deep learning models including **LSTM**, **GRU**, and their **bidirectional** variants.
- Utilized the **Universal Sentence Encoder** to create embeddings on both the character and word levels, and implemented a **multivariate** model using the **functional API** of **TensorFlow**.

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, 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.

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*

Certifications

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