

Harikesh Kushwaha

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MACHINE LEARNING ENGINEER

As a recent graduate with a strong foundation in **statistics** and machine learning algorithms, I have worked on several personal projects including **sentiment analysis**, **natural language processing**, and **computer vision**. In my recent projects, I have showcased my skills in **data cleaning**, **feature engineering**, and **model selection**. I have also demonstrated my proficiency in tools like **Python**, **TensorFlow**, **Keras**, **scikit-learn**, and **pandas**. With a passion for solving complex problems and a drive to constantly learn and improve, I am excited to take on new challenges in the field of Data Science.

TECHNICAL SKILLS

Languages	: Python, SQL, JavaScript, MATLAB, C++
Frameworks	: TensorFlow, Keras, Scikit-learn, Django, Streamlit
Libraries	: matplotlib, pandas, NumPy, Seaborn, BeautifulSoup, Selenium, OpenCV, Statsmodels
Databases	: MySQL, MongoDB
Dev Tools	: VS Code, Git, GitHub, Jupyter Notebook, Anaconda, AWS, Kaggle, S3
Soft Skills	: Analytical and problem-solving skills, Teamwork, Attention to detail, Communication skills

PROJECTS

Food Vision	<i>Python, TensorFlow, Colab, Image Processing, Streamlit, Transfer Learning</i>	Source Code
<ul style="list-style-type: none">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.		
NLP With Disaster Tweets	<i>Python, TensorFlow, NLP, Text Vectorization, Transfer Learning</i>	Source Code
<ul style="list-style-type: none">Developed Natural Language Processing models to classify disaster and non-disaster tweets using text vectorization, word embeddings, and deep learning models including LSTM, GRU, and 1D CNNs.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.		
House Prices Prediction	<i>Python, pandas, scikit-learn, kaggle, Matplotlib, Seaborn</i>	Source Code
<ul style="list-style-type: none">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. Best regression model achieved a top 12% ranking on the Kaggle leaderboard.		
Digit Recognizer	<i>Python, TensorFlow, Keras, Kaggle</i>	Source Code
<ul style="list-style-type: none">Developed a very deep convolutional neural network using TensorFlow with dropout and batch normalization to improve performance achieving a test accuracy of 99.48%		

EDUCATION

Indian Institute of Technology Delhi <i>Master of Science in Physics, (8.6 GPA)</i>	New Delhi, India <i>July 2021 – May 2023 (Expected)</i>
Banaras Hindu University <i>Bachelor of Science in Physics, (8.2 GPA)</i>	Varanasi, Uttar Pradesh India <i>July 2018 – May 2023</i>

CERTIFICATIONS

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