FARAZ AKHTER

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SKILLS

Languages: C++, Python
Libraries and Frameworks: TensorFlow, OpenCV, NumPy, Pandas, matplotlib, Scikit-learn, nltk
Tools and Platforms: Google Colab, MySQL, MATLAB, Excel, Amplitude
Methodologies: Machine Learning, Deep Learning, DSA, Computer Vision, Natural Language Processing

WORK EXPERIENCE

Indian Institute of Technology **Indore, MP**
Machine Learning Intern October 2022 – November 2022

- Collected raw data from different locations and applied data cleaning, data pre-processing, conducted exploratory data analysis (EDA) to gain insights into data distributions and relationships.
- I explore diverse modelling strategies encompassing feature engineering, fine tuning hyperparameters, coming up with my own novelty in terms of accuracy score and harnessing the capabilities of RandomForest Classifier for optimal results.
- I played a pivotal role in devising a sophisticated modelling approach achieving an impressive accuracy score for predicting landslides in hilly areas.

JP Morgan Chase & Co. **Delhi, Delhi**
Software Engineering Intern August 2022 - September 2022

- Integrated financial data feeds and APIs to fetch and parse live price quotes for stocks.
- Developed a machine learning model to predict stock prices using linear regression.
- Optimized code for efficiency when dealing with large datasets or high-frequency data updates. Created relevant features for stock price prediction, including moving averages, volatility and technical indicators.

PROJECTS

Sentiment Analysis across chain of hotels | *Python, Natural Language Processing* November 2023

- Developed an NLP model to perform sentiment analysis of hotel reviews to analyze their business.
- Successfully converted text data to numerical values with use of different NLP libraries such as nltk, spacy, Tf-Idf Vectorizer.
- Provided Interesting Insights to company based on their customer reviews and identified areas of reforms.

Determination of crack using OpenCV | *Python, Machine Learning* August 2023

- Developed an image classification model using OpenCV and TensorFlow in Python to identify cracks.
- Constructed dataset of over 500 images of buildings/infrastructure with labelled crack damage for training.
- Performed image preprocessing like grayscale conversion, blurring, and thresholding to highlight cracks.

Face Recognition Application | *Computer Vision* December 2022

- Implemented the Viola-Jones algorithm for face detection. Utilized Haar-like features and applying AdaBoost followed by cascading classifiers to detect faces in images.
- Employed popular machine learning libraries for various tasks within the project. Implemented real-time face detection and recognition, allowing the model to identify individuals within camera feeds.

EDUCATION

Jamia Millia Islamia, Faculty of Engineering and Technology **Delhi, Delhi**
Bachelor of Technology in Civil Engineering August 2019 - July 2023
Cumulative GPA: 8.85/10.0
Relevant Coursework: Machine Learning • Numerical Analysis and Computer Programming

CERTIFICATIONS

Specialization in Machine Learning | DeepLearning.AI, Stanford
Completed an intensive bootcamp specializing in Data Science and Python programming | IBM

ACTIVITIES

Presented research paper on Seismic Hazard Analysis at the NIDM Annual Conference (New Delhi, 2022)
Participant at IBM Master the Mainframe - Micro Data Analyst Innovation Camp.