ANISH KUMAR KHARWAR

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Education

2017 – 2021
Bachelor of Technology, Computer Science and Engineering
Indian Institute of Information Technology Kalyani
Cumulative GPA: 8.29

Experience

Awiros | Computer Vision and Machine Learning Engineer
Python, C++, TensorFlow, MXNet, Docker |
June 2021 – Present

- Studied and analyzed the datasets Casia and Facescrub, having 494k+ and 43k+ images respectively, in terms of class-distribution, aspect-ratio and blur.
- Trained and compared 4 gender classification models, choosing the model with test accuracy of 0.9388 and F1-score of 0.9303 and deployed it using Flask and Docker.
- Collaborated with UI team to automate the task of creating/loading, training and saving models as well as making predictions with the model using MXNet.

Vaultedge Software Pvt. Ltd. | Backend Intern
Python, Flask, MongoDB, Grafana |
March 2021 – May 2021

- Transferred the existing FIFO-Queue job scheduling to Priority-Queue in order to process jobs based on priorities associated with them.
- Implemented a backend to connect MongoDB to Grafana, the visualization tool, serving requests and sending responses containing the required data.
- Designed 6 REST APIs using Flask to serve the requests made by Grafana.

Projects

Recommender System |
Python, TensorFlow, Collaborative Filtering | LINK

- Designed and trained a Recommender System to predict ratings and recommend movies, reducing the loss to 0.48.
- Introduced regularization, achieving better performance on the test data.

Pulsar Star Classification |
Python, Gaussian Distribution | LINK

- Designed and trained a Gaussian Distribution model from scratch, to predict Pulsar stars in an unbalanced dataset (100:1) of astronomical objects.
- Achieved the F1-score of 0.8564 on validation data and 0.8551 on test data.

Maze Solver |
Python, Open-CV, DFS | LINK

- Automated the task of extracting data from mazes having 4500+ cells, resulting in the formation of Graph and Adjacency list for maze-cells.
- Utilized Depth-First-Search to implement a maze path-finder to get the solution of maze while saving each step of the search in an AVI file.

File Compressor |
C, Huffman Coding | LINK

- Implemented a file compressor in C using Huffman Coding algorithm, reducing a file to 60% of its original size and a decompressor to get back the original file.

Skills

Python, C++, C
TensorFlow, MXNet
NumPy, Pandas
Open-CV, Matplotlib/Seaborn
Flask, REST, Docker
HTML5, CSS3, JavaScript
OCTAVE/MATLAB
SQL, MongoDB

Interests

- Computer Vision
- Machine Learning
- Data Science
- Data Structures
- Algorithms

Familiar with

- Android Development
- Backend Development

Certifications

- TCS-NQT | LINK
  - Cognitive – 89.46%
  - Programming – 91.67%

Coursework

- Machine Learning
- Deep Learning
- Artificial Intelligence
- Computer Vision
- Algorithms
- Data Structures
- DBMS
- Operating Systems
- Compiler Design
- Discrete Mathematics
- Probability & Statistics

Profiles

- GitHub: anishk74
- LinkedIn: anishk74
- HackerRank: anishk74
- CodeChef: anishk74