ANISH KUMAR KHARWAR

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Education

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

Projects

Messy Room Classification |
Python, TensorFlow, CNN | LINK

- Trained a Convolutional Neural Network model on a small dataset to classify messy and clean rooms, achieved the accuracy of 97% on training data.
- Tripled the size of training data using data augmentation, achieving 85% accuracy on validation data.

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.

Real Time Motion Detection | Academic Project
Python, Firebase |

- Coordinated a team of 3 members to implement a Python script as well as an Android app for motion detection in real time data.
- Examined the performance of motion detection script through real time notifications on the android app.

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

- Automated the task of extracting data from a maze, 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.
- Extended the project implementing a decompressor as well, to get back the original file from the compressed file.

Skills

Python, C++, C
TensorFlow, NumPy, Pandas
Open-CV, Matplotlib/Seaborn
HTML5, CSS3, JavaScript
OCTAVE/MATLAB
SQL, Firebase

Interests

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

Familiar with

- Android Development
- Web 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