

# 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

## Experience

Vaultedge Software Pvt. Ltd. | Backend Intern

Python, Flask, MongoDB, Grafana |

March 2021 - Present

- Transferred the existing FIFO-Queue job scheduling to Priority-Queue in order to process jobs based on priorities associated with them.
- Designed a REST API using Flask which serves as a data-source in order to connect a MongoDB database to Grafana, the visualization tool.
- Handled 6 endpoints with the REST API to serve each type of request made by Grafana.

## 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.

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 and a decompressor to get back the original file.

## Skills

Python, C++, C  
TensorFlow, NumPy, Pandas  
Open-CV, Matplotlib/Seaborn  
Flask, REST-APIs  
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](#)