

# ANISH KUMAR KHARWAR

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## Projects

Anomaly detection using Gaussian Distribution model |  
Python, Gaussian Distribution |  
(<https://github.com/anishk74/Pulsar-Stars-classification>)

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

Real-time Motion Detection and Notification |  
Python, Firebase |  
(Academic Project)

- Worked in a team of 3 members to implement a Python script for motion detection under a camera frame in real time.
- Designed an android app as well to inform the user about motion through a real time notification on the app.

Maze-Solver |  
Python, Open-CV, DFS |  
(<https://github.com/anishk74/Maze-Solver>)

- Analyzed various mazes as graphs with its cells being graph nodes.
- Utilized Depth-First-Search to implement a maze path-finder to get the solution of maze.

File compressor |  
C, Huffman Coding |  
(<https://github.com/anishk74/File-Compression>)

- Built a file compressor in C using Huffman Coding algorithm which reduces the file to **60%** of its original size.
- Built a decompressor as well to get back the original file from the compressed file.

Expert System for Medical Diagnosis |  
Java, Swing, MySQL |  
(Academic Project)

- Worked in a team of 2 members to design a Desktop-Application using Swing to provide medical prescription for various diseases based on symptoms.
- Used MySQL to store and retrieve data from a database.

Personal Website |  
HTML5, CSS3, JavaScript |  
(<https://github.com/anishk74/anishk74.github.io>)

- Developed a front-end for myself based on Mobile-First-Design.

## Education

2017 - Present

Bachelor of Technology  
Computer Science and Engineering

Indian Institute of Information Technology,  
Kalyani

Cumulative GPA: **8.25**

## 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

## Coursework

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