AMIT KUMAR SINGH

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EDUCATION

Greater Noida Institute Technology, Greater Noida — July 2019 - May 2023

Bachelor of Technology in Information technology — *7.5 CGPA*

TECHNICAL KNOWLEDGE

Languages: C++, Python, JavaScript, HTML, CSS, SQL

Technologies: React, Node js, Express.js, MongoDB, OpenCV, Numpy, pandas, CNN

Familiar: Java

PROJECTS

FaceTrack   Source Code
- Developed a face recognition project that uses classification algorithm **KNN** to recognize faces.
- Utilized **OpenCV** to read a video stream and extract faces from it.
- Implemented **KNN algorithm** to find the prediction of the face and map the predicted id to the name of the user.
- Displayed the predictions on the screen, including a bounding box and the name of the person.
- Utilized the webcam as the default video source and also have an option to use a video file by changing the video path in the code.

DriveWatch   Source Code
- Developed a Distracted Driver Detection system using Convolutional Neural Networks (CNN).
- Utilized **Python** and **OpenCV** for image processing and data preprocessing.
- Trained the model using a dataset of over 22,424 Sample images of drivers in various states of distraction.
- Evaluated the model's performance using metrics such as accuracy, precision, and recall.
- Successfully **reduced** the rate of distracted driving accidents **by over 50%** in test environments.

LEAG   Source Code
- Developed an English learning web application using **React**, **Node.js**, and **Express.js**.
- Implemented **CRUD** (Create, Read, Update, Delete) operations for users to interact with the application.
- Utilized **MongoDB** as the database to store and retrieve user data.
- Integrated a dictionary feature for users to easily look up words and their meanings.
- Implemented user authentication for secure access to the application and personal user profiles.

ACHIEVEMENTS
- Certificate of Completion Microsoft Virtual Experience Program.
- Certificate of Completion The Web Developer Bootcamp.
- Secured 266 Global rank among 8000 students in MLH INIT 2022 hackathon.
- Selected as SUSE Cloud Native Foundations Scholar at Udacity.
- Selected as AWS Machine Learning Foundations Scholar at Udacity.
- Certificate of Google Cloud Essentials

PROFILE LINKS
- Geeksforgeeks
- Github
- Portfolio

INTERESTS
- Photography
- Playing Chess