

ADITYA THAKUR

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EDUCATION

Sharda University
B.Tech in Computer Science

2020 – 2024

U.P, India

Kendriya Vidyalaya
CBSE, Intermediate

2019 – 2020

Delhi, India

SKILLS

- Data Structures
- Data Analysis
- OOPS
- Database Management
- Machine Learning
- Data Modeling
- Python Programming
- Computer Network

TECHNICAL SKILLS

Programming Languages: Python, Java, C, HTML/CSS, SQL

Tools & Technologies: VS Code, Jupyter Notebook, Google Cloud Platform, IDLE

Frameworks & Libraries: Linux, GitHub, Scikit-Learn, Keras, Matplotlib, Pandas, OpenCV, TensorFlow

PROJECTS

Health Care Recommender System | *Python, Pandas, Sklearn* **December, 2023**

- Developed function to provide top 10 recommendations for diseases, medicines, food, diet plans, and exercises based on user input.
- Improved health recommendation accuracy by 30% through advanced text mining techniques.
- Processed over 1,000 health records for comprehensive data analysis.

Lane Detection System Using OpenCV | *Python, OpenCV, TensorFlow, Numpy* **October, 2023**

- Developed a lane detection system using OpenCV and NumPy for video processing.
- Utilized Canny edge detection (thresholds: 100, 200) and Hough Transform (rho: 2, theta: $\pi/180$, threshold: 100, min line length: 40, max line gap: 5).
- Defined a region of interest covering 60% of the frame height, focusing lane detection on the road area.
- Achieved real-time lane detection, processing 30 frames per second with accurate lane highlighting in 95% of frames.

Real-Time Driver Alert System **May, 2023**

- Developed a Real-Time Driver Drowsiness Detection System using Python, achieving a detection accuracy with an EAR threshold of 0.25.
- Processed 30 FPS from webcam feed, ensuring real-time performance with up to 1,000 frames per minute.
- Developed an alarm system that activates after detecting 15 frames of drowsiness, enhancing driver safety..
- Optimized performance with multi-threaded alarm triggers for non-blocking notifications and efficient responsiveness.

EXPERIENCE

Quantium **Sep,2023**
Software Engineering Intern *Remote*

- Developed an interactive Dash application that enabled the client to assess the impact of price changes on sales and profitability.
- Implemented a test suite to verify the Dash application is working and a bash script to automatically run the test suite.
- Developed an intuitive user interface to make the application enjoyable and engaging for the client to interact with.

Deloitte **Sept, 2023**
Technology Job Simulation *Remote*

- Completed a job simulation involving data analysis for Deloitte's Technology team.
- Created a data dashboard using Tableau.
- Wrote a proposal for a client project to create a functioning dashboard.
- Used Excel to classify data and draw business conclusions.