Daksh sharma

| LinkedIn | GitHub |

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SUMMARY

An innovative software engineer who builds intelligent systems that solve real-world problems. Proven experience developing and deploying real-time AI applications for safety and efficiency using Python, Computer Vision, and Cloud technologies.

TECHNICAL SKILLS

Languages	:	Java,Python
AI/Machine Learning	:	PyTorch, YOLOv5, OpenCV, MediaPipe, TensorFlow
Webdev	:	HTML, CSS, JavaScript
Databases	:	Firebase, AWS
Dev Tools	:	Visual Studio Code, Git, GitHub, Anaconda

EDUCATION

Meerut Institute of Engineering & Technology   Meerut, India
B.Tech in Computer Science(AIML)   *Aug 2022 – Aug 2026*

Ved International School   Meerut, India
Senior Secondary School   *Mar 2020 – Mar 2022*

PROJECTS

AI-Powered Smart Traffic Management System   *Python, PyTorch, YOLOv5, OpenCV*

- Built an AI system to analyze live traffic feeds and optimize signal control in real time.
- Trained YOLOv5 models for high-accuracy vehicle and pedestrian detection.
- Improved CPU inference speed by 40% using frame optimization and adaptive logic.

Drowsiness Detection System   *Python, OpenCV, MediaPipe, Firebase, Twilio, AWS*

- Developed a real-time fatigue detection system using facial landmark tracking.
- Added personalized calibration to boost accuracy and reduce false alerts by 30%.
- Integrated Firebase for real-time data storage and alert management.

Ultimate AI Pathfinding Visualizer   *Python, Pygame, AI Algorithms*

- Created an interactive tool to visualize A*, Dijkstra, and BFS search algorithms.
- Implemented procedural maze generation using Prim's and Backtracking.
- Compared algorithm performance through real-time visual benchmarking.

Horizon Drifts – Travel Agency Website   *HTML, CSS, JavaScript*

- Designed and built a responsive multi-page travel website with modern UI/UX.
- Implemented smooth navigation and optimized layouts for all devices.
- Enhanced user experience with clean visuals and interactive design elements

CERTIFICATIONS

- AWS Academy Graduate – Cloud Foundations | Amazon Web Services (AWS)
- • Artificial Intelligence Fundamentals | IBM