Reda Kaleem

Computer Science Engineer | AI & Systems Developer | Data Analyst | Open source Contributor

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Enthusiastic and self-driven Computer Science undergraduate with a strong foundation in Artificial Intelligence computer vision, and system design. An aspiring Data Scientist who is proficient in Python, Data wrangling and ML frameworks like YOLOv8 along with Data Visualization.

Education

B.E - Computer Science Engineering
Lords Institute of Engineering and Technology   2022-2026
CGPA: 8.54
Relevant courses: Artificial Engineering, Machine Learning, Computer Networks, Compiler Design, Data Mining, Business Economics & Financial Analysis

Intermediate   2020-2022
MS Junior College
CGPA: 9.2
Relevant courses: Maths A & B, Physics & Chemistry

10th Board   2020
Sultan Ul Uloom Public School
CGPA: 8.9

Technical Competencies

Programming Languages:

Python	C
HTML	CSS
Javascript	

AI/ML:

YOLOv8	Computer Vision
OpenCV	MediaPipe
Speech Recognition	LLM

Tools & Frameworks:

Git	Github
Postman	Eleven Labs API
Huggingface	

Domains:

Artificial Intelligence	Computer Vision
Smart Systems	Automation
AI development	

Major Projects

GeoFence Smart Alarm System
- Designed a location-based intelligent alert system using geofencing concepts to trigger alarms and actions when a device enters or exits a defined area.
- Focused on real-world automation use cases such as safety alerts, reminders, and smart triggers.
- Being developed as a practical AI + systems integration project.

ClearPath AI: Emergency Vehicle Traffic Management System
- Developed a smart traffic management system using YOLOv8 and OpenCV to detect emergency vehicles and dynamically control traffic signals.
- Implemented real-time route clearance and signal prioritization using Python.
- Designed with scalability in mind for smart city and IoT integration.
- Seminar report: Emergency Vehicle Detection and Response using YOLOv8.
- Link to project repository: https://github.com/RedaKaleem/ClearPath-AI

Sael: AI-Powered Voice Assistant Headset
- Built an AI-powered headset assistant inspired by JARVIS (Just a rather very Intelligent System) for hands-free control using Python, speech recognition, and ElevenLabs.
- Focused on accessibility for specially-abled users with emotionally aware, human-like responses.
- Link to project repository: https://github.com/RedaKaleem/KAR

Gesture-Controlled Virtual Car Simulator
- Developed a virtual car simulator using Python, OpenCV, and MediaPipe.
- Implemented hand gesture-based steering, acceleration, and braking using computer vision.
- Link to project repository: https://github.com/RedaKaleem/virtual-assitance

DONATINATOR: Blood Donation Android App
- Built an Android app using Jetpack Compose to track blood donations, schedules, and nearby camps/hospitals.
- Planned integration with map and calendar APIs
- Link to project repository: https://github.com/RedaKaleem/MAD-DONATINATOR

Machine Learning-Based Text Classification for Online Content Moderation
- Developed a text classifier that classifies text based on its toxicity or level of threat to better understand the type of comment used or said
- By using Machine learning algorithms like Decision Tree and SVM to determine the type of toxicity classified in: Religious, Political, Discrimination, Racist and Gender Inequality
- Focused on youth users
- Research paper for published in local and international universities
- Reasearch Paper: Machine Learning-Based Text Classification for Online Content Moderation

Internship Experience

Lords Skill Academy   Aug 2025 - Nov 2025
- Contributed to branding and program strategy for LSA Labs.
- Oversaw design direction, researched academic programs and faculty curriculum.
- Mentored students in AI development and project building.

Leadership & Community Work

Lead Instructor & Community Lead — CodeWave Hub (CWH)
- Leading an open-source tech community focused on collaboration and upskilling.
- Organized events, workshops, and collaborations (including with Tezos India Guild).
- Lead organizer of hackathons called HackPrix for 500+ participants nationwide and attended 4+ hackathons
- Initiated multiple Tech meetups and learnathon