MALIK RIHAN S K

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Professional Summary

MCA graduate with strong foundations in software development, data structures, web technologies, and database management. Skilled in Java, Python, HTML/CSS, and SQL, with hands-on academic project experience in building responsive web applications and automation tools. Quick learner with good problem-solving abilities, seeking an opportunity to contribute to a growth-oriented organization while continuously improving technical and professional skills.

Education

B I E T – Davanagere *Dec 2025*

MASTER OF COMPUTER APPLICATION

B I H E – Davanagere *Jul 2023*

BACHELOR OF COMPUTER APPLICATIONS

Skills

Java: OOP Concepts (Classes, Objects, Inheritance, Polymorphism, Encapsulation, Abstraction) Exception Handling Multithreading & Concurrency, Interfaces & Abstract Classes

HTML & CSS: Forms (input types, validation, labels) Tables & Lists Multimedia Elements Hyperlinks & Navigation,Box Model,Flexbox & Grid Layout Responsive Design

SQL: Writing SQL queries,Filtering & Sorting Data,Aggregate Functions,Views & Stored Procedures Triggers & Functions Transactions & ACID Properties Cursors & Error Handling Performance Optimization & Query Tuning

Python: Data types,Variables and Operators,Control Statements,Loops,Exception Handling,Classes & Objects Inheritance & Polymorphism Encapsulation & Abstraction

Projects

Intelligent Weapon Detection System Using YOLO-v8 *Nov 2024 – Jan 2025*

- **Description:** Developed a real-time surveillance system using **YOLOv8 deep learning model** for automatic detection of weapons (guns, knives, rifles) in live video streams. Implemented a **Python-based backend** with **FastAPI/Flask**, integrated with **OpenCV** for video processing and **PyTorch** for model inference. Designed a **web-based frontend dashboard** to display live detection results, alerts, and logs. The system provides **real-time notifications**, supports **multiple camera feeds**, and stores detection history for analysis, enhancing public safety and security monitoring.
  Key Technologies: Python, YOLOv8, PyTorch, OpenCV, FastAPI/Flask, HTML/CSS, JavaScript, MySQL

New Project *Jan 2023 – Mar 2025*

- **Description:**
  Developed a system to control LED lights using hand gestures captured through a camera. Utilized computer vision techniques and **Python** libraries such as **OpenCV** and **MediaPipe** for real-time hand tracking and gesture recognition. The recognized gestures are converted into commands to **turn ON/OFF or dim LED lights** via **Arduino/Raspberry Pi**. The project demonstrates a contactless, intuitive, and smart way of controlling devices, suitable for home automation and IoT applications.
  Key Technologies: Python, OpenCV, MediaPipe, Arduino/Raspberry Pi, GPIO, Computer Vision, Hand Gesture Recognition

Languages

Hindi (Native), English (Fluent)