

Amruth Krishnan M

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Professional Summary

Motivated MCA graduate and aspiring Software Engineer with strong knowledge of Python, Java, Data Structures & Algorithms, DBMS, and Machine Learning. Experienced in developing AI- and IoT-based projects through academic and personal initiatives. Passionate about solving real-world problems, learning new technologies, and building efficient, scalable software solutions in a collaborative environment.

Technical Skills

- **Programming Languages:** Python, Java, C, C++, JavaScript
- **Databases:** MySQL, PostgreSQL, Microsoft SQL Server, MongoDB
- **Web Technologies:** HTML5, CSS3, React.js, Node.js, REST APIs
- **AI & Data Science:** Machine Learning, Deep Learning, TensorFlow, Scikit-learn
- **Tools & Platforms:** Git, GitHub, Linux, MS Office, Android Studio, Arduino, GitHub Copilot, Claude
- **Concepts:** Software Engineering, Software Development Life Cycle, DSA, OOP, DBMS

Education

Master of Computer Applications (MCA) APJ Abdul Kalam Technological University (KTU), Kerala CGPA: 8.84	2024 – 2026
B.Sc. Computer Science University of Calicut, Kerala CGPA: 8.133	2021 – 2024
Class XII Board of Higher Secondary Examinations, Kerala Percentage: 89.91%	2021
Class X Central Board of Secondary Education (CBSE) Percentage: 83.4%	2019

Projects

Wild Alert: Real-Time Wildlife detection and Alert System • Engineered a real-time wildlife detection system using YOLOv8 to identify animals and vehicles from live camera feeds and analyzing potential collision risks. • Integrated an IoT-based alert mechanism using ESP8266 and MQTT to trigger roadside warnings (LED, buzzer, LCD) for preventing animal-vehicle accidents.	GitHub
Personal Posture Evaluator • Developed a real-time posture evaluation system using computer vision and pose estimation to analyze body movements and provide accuracy-based scoring. • Implemented exercise and yoga tracking with rep counting, posture feedback, and voice guidance using a Flask-based web interface.	GitHub
Waste Classifier and Disposal Recommendation System • Created a deep learning-based system to classify waste using Convolutional Neural Networks (CNNs). • Enhanced sustainability by enabling intelligent and eco-friendly waste sorting.	GitHub
Smart Shopping Cart (IoT + RFID) • Built an IoT-based smart cart using RFID technology for automated product detection. • Designed a web interface for real-time cart updates and automated billing display.	GitHub

Certifications

- Machine Learning Onramp – MathWorks
- Cloud Computing – NPTEL
- Cyber Security – IBM
- Android Development with Compose – Google