Adarsh A

Warcraft433 | adarsh-a-ab61b325a | adarsh.official2011@gmail.com | 9778391694 | Kollam, Kerala

Profile

Final-year B.Tech student in Electronics and Communication Engineering passionate about software development, AI integration, and open-source technologies. Experienced in Python, Java, and C++, with strong foundations in data structures, algorithms, and machine learning. Eager to contribute to innovative projects that merge AI with system-level efficiency.

Technical Skills

Programming Languages	Python, Java, C, C++
AI / ML , Machine Learning Basics, YOLOv8 (Object Detection)	
Web Technologies	HTML, CSS, JavaScript, React
UI/UX Tools	Figma, Canva,
Platforms & Tools	Linux, Windows, Google Colab, Git (Basics)

Experience

Part-Time Digital Marketing Executive *2 Months*
L^2 Academy

- Managed social media content for Instagram and Facebook, including posters, captions, and promotions.
- Assisted in digital campaign execution to improve course visibility and student engagement.
- Coordinated with faculty to promote academic programs and admission-related activities.

Internships

Python Programming & Web Designing Intern Infopark, Kochi — Jul 2024

Python & Data Science Intern Technopark, Trivandrum — Jan 2024

Key Projects

AI-Enhanced 3D Printer (Final Year Project)

- Developed an AI-integrated autonomous 3D printing system converting text/image inputs into printable 3D models.
- Implemented automated model generation, mesh repair, and cloud-based slicing.
- Integrated real-time print failure detection (spaghetti error, layer shift, nozzle clog) using YOLOv8.
- Designed a web-based dashboard for remote printer control, live monitoring, and analytics.

IR-Based 3D Scanner (Mini Project) *Arduino, Embedded C, IR Sensors, Stepper Motor Control*

- Built a low-cost 3D scanning system using IR distance sensing and stepper motor rotation.
- Developed embedded firmware for synchronized sensor data acquisition.
- Generated point-cloud data for basic 3D reconstruction and prototyping.

Password-Based Digital Lock System *Embedded C, Microcontroller, Keypad Interface, Servo Control*

- Designed a microcontroller-based access control system with keypad-based password authentication.
- Implemented embedded control logic for servo-based locking and input validation.

Education

2022–2026 **B.Tech in Electronics and Communication Engineering**
Bishop Jerome Institute, Kollam, Kerala

2021 **Higher Secondary Education (Computer Science)**
SN Trust HSS, Kollam, Kerala

Certifications

- **Machine Learning** — Youth Employability Skill Training, Bishop Jerome Institute Dec 2024 – Mar 2025
- **Java Programming (NPTEL)** — IIT Kharagpur *12-week course*
- **Machine Learning Workshop** — ICFOSS, Bishop Jerome Institute *Aug 2025*

Leadership & Achievements

- **FOSS Club Coordinator** — Led technical workshops, open-source awareness programs, and student-led initiatives within the campus community.
- **Career Ambassador (ECE Department)** — Mentored students, coordinated career guidance activities, and conducted technical awareness sessions.
- Delivered an introductory session on **Free & Open Source Software** during **Software Freedom Day 2025**.

Languages

English, Malayalam (Native), Hindi

References

- **Mr. Roy S** — HOD of ECE & Dean of Studies, Bishop Jerome Institute, Kollam
- **Ms. Blessy Babu** — Assistant Professor, Department of Electronics and Communication Engineering, Bishop Jerome Institute, Kollam
- **Mr. C. G. Manoj Kumar** — Co-founder & Executive Director, LifeMithra