

KRISHNA MAHAJAN

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Education

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Electronics and Computer Current CGPA: 7.45

September 2022 – Present

Patiala, Punjab

Golden Sr. Sec School

Class 12th Non-Medical 90.2%

April 2020 – May 2022

Gurdaspur, Punjab

Professional Experience

Elcom Digital

Summer Intern

June 2025 – August 2025

Noida, Uttar Pradesh

- Worked on a **task management and EOD reporting Project** with a point system to enhance employee performance, using key **AWS services (EC2, S3, RDS, Bedrock)** to improve internal workflows.
- Developed a **CEO dashboard in Metabase**, defining and tracking departmental **KPIs** to provide actionable insights into company performance.
- Automated key business processes**, including creating a marketing mail system with **n8n**, to boost operational efficiency and reduce manual tasks.

Projects

Acadify - Revolutionizing Course File Management for TIET

May 2025 - November 2025

- Developed **ACADIFY** using React, Node.js, and PostgreSQL to digitize the end-to-end departmental course file life-cycle, replacing fragmented email and manual storage workflows with a centralized web portal.
- Designed a Role-Based Access Control system (Admin, Coordinator, Faculty) to automate document assignments, multi-stage review workflows, and contextual real-time collaboration via integrated course chatroom.
- Implemented a structured archival system with immutable audit trails to maintain semester-wise records, ensuring 100% readiness for institutional NBA and NAAC accreditation audits.

TalkBridge - Full-Stack Real-Time Communication Platform

June 2025

- Developed a real-time language exchange platform with messaging, video calls, screen sharing, and session recording.
- Designed and integrated 32 unique UI themes, enabling personalized user experiences for a global audience.
- Implemented live typing indicators, emoji reactions, and instant message delivery for seamless interaction.

Real TIme Defect Detection using YOLO and Robotation automation

june 2024 – August 2024

- Engineered a robotic arm for industrial defect detection, reducing manual inspection time by over 30 hours per month and enabling engineers to focus on complex tasks.
- Built a high-precision defect identification system using YOLO models, enabling real-time defect analysis and boosting productivity.
- Integrated Raspberry Pi and Arduino for seamless robot control, achieving state-of-the-art defect detection accuracy on a mechanical parts dataset.

Skills

Languages: Python, JavaScript , C, C++, Java, HTML/CSS, SQL, MATLAB, Verilog

Frameworks and Libraries: TensorFlow, Keras, Scikit-learn, OpenCV, MediaPipe, Node.js, Express.js, Flask, React.js, Bootstrap, Tailwind, Socket.io, NumPy, Pandas, Matplotlib, FastAPI

DevOps & CI/CD Tools: Docker, Docker Compose, Git, GitHub Actions, AWS

Hardware: Arduino, Raspberry Pi

Tools: MetaBase, PowerBI, Excel

Soft Skills: Public Speaking, Leadership, Teamwork, Event Management, Outreach, Video Editing

CourseWork: Object-Oriented Programming, Data Structures and Algorithms, Artificial Intelligence, Operating Systems, Database Management Systems, Analog Electronics, Embedded Systems, Digital System Design

Leadership / Extracurricular

Thapar Movie Club

July 2023 – May 2025

Media Secretary

Thapar University

- Served as Overall Media Coordinator for CINEYOUTH 2024 and 2025, leading media operations, PR, and social media strategies for an event attended by over 3,000 students over three days.

Thapar Food Festival

September 2023 – April 2025

Executive Board Member

Thapar University

- Lead a team of 250 members as the Overall Media Coordinator, managing social media, event planning, and public relations to ensure seamless execution and maximum engagement.