

AJAY RAJU MJ

MECHANICAL ENGINEER

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SUMMARY

Enthusiastic Mechanical Engineering Student with Practical Project Experience and Industrial exposure, Committed to continuous learning and Professional growth.

EDUCATION

Bachelor of Engineering in Mechanical Engineering

Government College of Technology, Coimbatore
2023-2027

INTERNSHIP

REVO TECHNOLOGIES AND ENTERPRISES, CHENNAI

Worked with industrial heating systems, implemented temperature data acquisition, and analyzed process data using Power BI.

SANJMAR INDUSTRIES, CHENNAI

Acquired practical knowledge of industrial fabrication, material preparation, welding, assembly, and quality control while working on engineering projects associated with GAIL (India) Limited.

PROJECTS

TORQ AI — Portable Mechanical Engineering AI

- Developing TORQ AI, a specialized AI assistant for Mechanical Engineering.
- Implementing Retrieval-Augmented Generation (RAG) to provide accurate engineering answers.

Sparrow AI - Local AI Assistant Desktop Application

- Designed and developed a desktop AI assistant using Python that runs a GGUF large language model locally with llama.cpp.
- Interface, voice input using speech recognition, text-to-speech responses, and conversation memory.

SKILLS

Technical Skills : Python, CAD Modeling, Power BI, Data Analytics,

AI & Data Skills : Prompt Engineering, Large Language Model (LLM) Fundamentals, RAG

Soft Skills : Communication, Leadership, Teamwork, Problem Solving, Critical Thinking, and Adaptability.

POSITIONS

PRESIDENT - YOUNG MINDS CLUB OF GCT YOUTH

2025-2026

- Leading a student service organization focused on community initiatives and campus development programs.
- Responsible for coordinating volunteers, planning events .

CERTIFICATION

Winner – Shark Tank Innovation Challenge – Presented an **AI-powered CNC** software that enables CNC machines to interpret and execute natural language commands.

REVIT MEP Certification – Successfully completed the **REVIT MEP** training program conducted through MSME.

LANGUAGES

Fluent in Tamil, English and Hindi