

GUNTI RAVIKUMAR

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GitHub | LinkedIn | Portfolio

SUMMARY

Final-year B.Tech Computer Science student at IIITDM Jabalpur with **8.4/10.0 CGPA** and hands-on experience developing **AI, computer vision, predictive analytics, and full-stack applications**. Experienced with Python, OpenCV, MediaPipe, Firebase, React, and AI-powered APIs. Built projects involving real-time computer vision, consumption prediction, IoT sensor data processing, speech-to-text, and automated task extraction. Strong foundation in **Data Structures & Algorithms, OOP, DBMS, Operating Systems, and Computer Networks**.

EDUCATION

IIITDM Jabalpur

B.Tech in Computer Science & Engineering

Aug 2023 – May 2027

CGPA: 8.4/10.0

TECHNICAL SKILLS

Languages: Python, C++, C, JavaScript, TypeScript, SQL

AI/ML & Computer Vision: OpenCV, MediaPipe, Computer Vision, Predictive Analytics, Exponential Moving Average (EMA)

Frontend: React, Next.js, Tailwind CSS

Backend & Cloud: Node.js, Django REST Framework, Firebase, Cloud Functions, REST APIs

Databases: MongoDB, Firebase Firestore, Firebase Realtime Database, MySQL

Tools & Hardware: Git, GitHub, Docker, Vercel, ESP32, HX711 Load Cell

EXPERIENCE

Fusion ERP Module Development – IIITDM Jabalpur

Aug 2025 – May 2026

- Developed a scholarship management module using **React and Django REST Framework** for eligibility verification, application review, approval workflows, and merit list generation.
- Built dashboards and multi-tier workflows for **3 user groups**: Students, SPACS Assistant, and SPACS Convener.
- Designed REST APIs for application submission, document verification, review, approval/rejection, and application status tracking.
- Collaborated using **Git, GitHub, code reviews, and Agile practices** while integrating the module into the existing ERP system.

PROJECTS

Driver Drowsiness Detection System – Computer Vision

GitHub

- Developed a real-time driver monitoring system using **Python, OpenCV, and MediaPipe** to detect signs of drowsiness through webcam-based facial and eye analysis.
- Implemented eye-based drowsiness detection and automated **alarm triggering** when prolonged signs of drowsiness were detected.
- Structured the application into modular components including **utils.py** and **drowsiness detector modules** for maintainable computer vision processing.

Smart Kitchen – AI-Powered Inventory & Consumption Analytics

Demo | GitHub

- Built an IoT-based inventory analytics system using **ESP32/ESP8266, HX711 load cells, React, Firebase, and Cloud Functions** to monitor pantry item weights in real time.
- Implemented an **AI consumption engine using Exponential Moving Average (EMA)** to estimate daily usage and predict remaining inventory days.
- Developed automated refill detection by processing sensor weight changes and distinguishing consumption events from pantry refills.
- Built a responsive analytics dashboard with **Recharts** to visualize inventory levels, consumption trends, refill events, and waste-related information.

MeetTask AI – AI Meeting Transcription Platform

Demo | GitHub

- Built an AI-powered meeting platform using **AssemblyAI** for speech-to-text transcription and automated action-item extraction from meeting audio.
- Implemented **Firebase Authentication and RBAC** to isolate workspace data and manage user permissions.
- Integrated audio-processing workflows to convert meeting recordings into transcripts and actionable tasks.

CERTIFICATIONS & TRAINING

AWS Cloud Quest: Cloud Practitioner – Completion Certificate

AWS Training & Certification, Aug 2026

ACHIEVEMENTS

- NPTEL STAR:** Secured A+ grades in all 4 **Computer Science SWAYAM/NPTEL certification courses**.
- JEE Main 2023:** Secured **98.2 percentile**, ranking in the top **1.8%** nationally.
- Maintained **20+ GitHub repositories** with **450+ commits**.