



Ram Sundar Radhakrishnan

✉ Email: ramsundar289@gmail.com ☎ Phone: (+91) 7411204470

🌐 Website: <https://ramsundarradhakrishnan.github.io/portfoliowebpage/>

🌐 LinkedIn: <https://www.linkedin.com/in/ram-sundar-radhakrishnan-56b522289/>

📅 Date of birth: 29/10/2004 🇮🇳 Nationality: Indian

ABOUT ME

Third-year B.Tech CSE student specializing in Large Language Models (LLMs) and Vision-Language Models (VLMs) with experience in NLP pipelines, real-time computer vision, and LLM fine-tuning. Interested in applying AI to knowledge systems, education, and supply chain optimization.

WORK EXPERIENCE

Vellore Institute of Technology, Chennai Campus

City: Chennai | Country: India

[15/05/2025 – 07/07/2025]

Research Intern

Worked on large-scale NLP and vision-language projects under the VIT Summer Research Internship Program, focusing on efficient information extraction and real-time visual analysis.

- Designed and implemented a two-stage NLP pipeline using Gemma 3 4B for entity/relation extraction, generating 673K+ triplets from 68K sentences using local GPUs, HPC clusters, and cloud instances.
- Developed a real-time video proctoring system using OpenCV2, SmolVLM 500M, Gemma 3 1B, classifying attentiveness with <1 minute latency per 30-second clip.
- Fine-tuned GPT-2 and Gemma 3 1B using DPO for domain-specific tasks; experimented with LoRA and PEFT on LLaMA 3.1 8B.

EDUCATION AND TRAINING

[07/08/2023 – Current]

Bachelors of Technology in Computer Science and Engineering

Vellore Institute of Technology, Chennai Campus <https://chennai.vit.ac.in/>

City: Chennai | Country: India | Field(s) of study: Information and Communication Technologies: • *Software and applications development and analysis* | Level in EQF: EQF level 6

LANGUAGE SKILLS

Mother tongue(s): English

Other language(s):

Hindi

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Machine Learning | Python | C++ | AI | LLMs | Deep Learning | Solidity | Linux

PROJECTS

[15/05/2025 – 07/07/2025]

Triplet Extraction for Knowledge Graphs

Used **Gemma 3 4B** in a 2 stage pipeline to extract subject-relation-object triplets from a dataset of sentences scraped from technical literature.

Extracted **673,421 triplets** from **68,491 sentences**.

Utilized local hardware, cloud computing and university's high performance computing to achieve the goal.

[15/05/2025 – 07/07/2025]

Video Proctoring using Vision Language Models

Designed an efficient Video Proctoring system using **SmolVLM 500M** and **Gemma 3 1B** to categorize input video as "Distracted" or "Focused", along with justifications for the classification.

The system can process a 30 second clip in about 1 minute.

[01/08/2025 – Current]

Solidity Smart Contract Design for Improving Efficiency of the Indian Public Distribution System

Designed a permissioned blockchain based Smart Contract system to improve transparency and traceability in India's Public Distribution System.

Built a full Solidity prototype modelling the grain lifecycle (creation → procurement → inbound → audit → release → shipment → retail). Evaluated gas usage, latency, storage invariants, and workflow safety using Foundry on a Paris-compatible EVM.

(Manuscript currently under internal review.)

NETWORKS AND MEMBERSHIPS

[01/03/2024 – Current]

Toastmasters International Chennai, India

- **President**, Aletheo VIT Toastmasters Club (Jan-Dec 2025)
- **Club Mentor**, Exordio VIT Toastmasters Club (Jan-Jul 2025)
- **Triple Crown Awardee** (3+ educational achievements in a single year)
- Winner of **Division Support Champion** Award
- Completed **Dynamic Leadership Pathway**