

DIVYANSHU GIRI

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EXPERIENCE

Research Collaborator

Sony Research @CVIT

📅 May 2026 – Ongoing

📍 Remote

- Contributed in building a novel pipeline for creating accurate timestamps for major events detected in a football match stream. Majorly testing, debugging and adding sub-event detections feature.
- Achieved a high **95%+ accuracy** across all major events, deploying Gemma 4B to detect goals at rate of per second and using Gemini-flash models to localize the exact time-stamp of events.
- Working on novel interesting problems to undertake in the domain of movie-editing automation.

Undergraduate Researcher

Centre for Visual Information Technology (CVIT)

📅 April 2026 –

📍 IIIT Hyderabad

- Working on problems related to movie-understanding and automated editing advised by Prof. Vineet Gandhi and Prof. Makarand Tapaswi
- Experiments being conducted to improved benchmarks as well as improve models on the current benchmarks.
- Also exploring mechanistic interpretation internals of VLMs in the meanwhile through techniques like layer-wise activation patching, probing, attention vs. mlp decomposition, individual attention-head localization, logit-projection. etc.

PROJECTS

SARAL-notvibing: A SARAL AI fork

📅 Oct 2025

📍 Remote

- Improved the existing Saral-AI app with automated podcast, reel, and mind-map generation, securing 1st Runner-up at Megathon and integration into the official production release.
- Engineered "PeterExplains"-style short reels with gameplay backgrounds (Minecraft/Subway Surfers), utilizing FFmpeg for rapid, local video rendering to bypass AI-based external API latency.
- Integrated Sarvam API and Bhashini-TTS to generate multilingual conversational audio across diverse Indian languages, alongside Mermaid.AI for dynamic mind-map creation.

SemEval-2026 Task 13: Machine-Generated Code Detection

📅 Jan 2026 – April 2026

📍 IIIT Hyderabad

- Built transformer-based models using CodeBERT, GraphCodeBERT, and UniXcoder for multilingual AI-generated code detection and LLM authorship attribution.
- Achieved a **Macro F1 of 0.5143** on Subtask B, improving upon the official baseline by **134%** and surpassing the best public leaderboard submission.
- The task explored detection of LLM authorship as well the class of the specific LLMS used from among DeepSeek-AI, Qwen, 01-ai, BigCode, Gemma, Phi, Meta-LLaMA, IBM-Granite, Mistral, OpenAI models.

Custom C-Shell & Networking System

📅 August 2025 – September 2025

📍 IIIT Hyderabad

- Developed a custom Unix shell in C with support for command parsing, process management, I/O redirection, piping, background execution, and built-in commands.
- Implemented networking functionalities including client-server communication using TCP sockets, enabling remote command execution and file transfer while gaining hands-on experience with POSIX system calls and Linux networking.

EDUCATION

B.Tech.(Honours) in Computer Science and M.S. in Computational Linguistics

International Institute of Information Technology Hyderabad

📅 July 2024 –

SKILLS

C C++ Python Bash SQL
Matlab Matplotlib PyTorch SQL
React.js Presentation (yes it is a skill)

ACHIEVEMENTS

Megathon

E-Cell, IIIT Hyderabad

📅 October 2025 –

1st Runner-up

DeccanCTF

0x1337: The Hacking Club, IIIT Hyderabad

📅 February 2025 –

1st Runner-up