





NIRMIT JAIN

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Education

Vellore Institute of Technology, Vellore

B.Tech in Computer Science and Engineering, CGPA: **9.3***

Aug 2023 – Jul 2027

Vellore, India

FIITJEE Hyderabad

Intermediate Education, Percentage: **96.9%**

2021 – 2023

Hyderabad, India

Kennedy High The Global School, Hyderabad

10th, CBSE, Percentage: **96.8%**

2014 – 2021

Hyderabad, India

Experience

Research Assistant - Breast Cancer Detection using RAG Model

Apr 2025 – Present

Special Project – Prof. Biji Christopher L

Vellore Institute of Technology

- Designing the first stage of a multi-phase clinical decision support system, developing a Retrieval-Augmented Generation (RAG) pipeline that processes 500+ multi-format pathology reports.
- Implemented NLP-driven feature extraction (tumor size, lymph node status, histology) from multi-format pathology reports using Hugging Face Transformers and FAISS vector search, enabling automated classification and prognosis prediction in downstream models.
- Working on a collaboration with Christian Medical College, Vellore, to integrate clinical datasets for model validation.

Sr. Technical Manager - Google Developers Students Club (GDSC), VIT Vellore

Present

- Helped conduct VIT's flagship hackathon **DevJams 24**, uniting 800+ developers to build 50+ projects in 48 hours.
- Orchestrated multiple 500+ attendee tech events on AI/ML, Web3, and Cloud.

Head Mentor - VIT Anchoring Club

Present

- Training 80+ juniors in public speaking and stage presence, enabling them to anchor high-profile university events for 1,000+ attendees.
- Spearheaded a comprehensive public speaking curriculum involving 10+ modules on rhetoric, body language, and audience psychology, enabling club members to deliver more engaging presentations at university events.

Projects

Reddit Post Analyzer and Comment Summarizer

- Developed an **NLP system** to extract top **Reddit posts** and **summarize user comments** using advanced **natural language processing** techniques and **automated PDF report generation** for comprehensive post analysis.
- Technologies: **Python**, **PRAW**, **VaderSentiment**, **Transformers**, **ReportLab**, **Streamlit**

GDG Event Tracker Website

- Built an AI-integrated web application backend to parse Gmail emails and auto-schedule events in Google Calendar with seamless workflow automation.
- Technologies: **Cloud**, **Gmail/Calendar API**, **PostgreSQL**, **LangChain**, **FastAPI**, **Node.js**

IndAI: Call-Based Multilingual AI Agent for Government Schemes

- Worked on an offline, modular AI voice agent for citizen queries on government documents via phone calls, enabling near-zero digital literacy access using Asterisk, MicroSIP, and locally hosted Falcon-RW-1B LLM
- Deployed a multilingual speech-to-text/text-to-speech pipeline using Whisper and Coqui TTS, enabling real-time voice interactions for users without internet access, and achieving 95% accuracy in voice recognition.

Technical Skills

Languages: Java, JavaScript, Python, C++, C

Frameworks: Node.js, React.js, RestAPI, Google Cloud, FastAPI, Hugging Face Transformers

Databases and Tools: PostgreSQL, MySQL, Git, Docker, Ubuntu, VS Code, Google Collab, Streamlit