

NIRMIT JAIN

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Education

Vellore Institute of Technology, Vellore <i>B.Tech in Computer Science and Engineering, CGPA: 9.3*</i>	Aug 2023 – Jul 2027 <i>Vellore, India</i>
FIITJEE Hyderabad <i>Intermediate Education, Percentage: 96.9%</i>	2021 – 2023 <i>Hyderabad, India</i>
Kennedy High The Global School, Hyderabad <i>10th, CBSE, Percentage: 96.8%</i>	2014 – 2021 <i>Hyderabad, India</i>

Experience

Research Assistant - Breast Cancer Detection using RAG Model <i>Special Project – Prof. Biji Christopher L</i>	Apr 2025 – Present <i>Vellore Institute of Technology</i>
<ul style="list-style-type: none">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