

EDUCATION

**GITAM University**

*Bachelor of Technology (B.Tech) – Computer Science*

CGPA: 9.67/10.0

Hyderabad, India

2024 – Expected April 2028

**Relevant Coursework:** Data Structures, Design & Analysis of Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming, Probability & Statistics, Linear Algebra, Calculus & Differential Equations

**University of Toronto**

*Studies in Mathematical & Physical Sciences*

Honors: Dean’s List Scholar (2023)

Relevant Coursework: Calculus with Proofs, Linear Algebra, Classical Mechanics, Quantum Physics, Programming

Toronto, Canada

2022 – 2024

EXPERIENCE & LEADERSHIP

**G-ELECTRA Tech Club – GITAM University**

*Web Development Lead*

August 2025 – August 2026

Hyderabad, India

- Led the development of two websites for GELECTRA, supporting tech-fest promotion, event information, and participant engagement.
- Collaborated with a team to integrate interactive 3D features and deliver responsive, production-ready web experiences.
- Optimized rendering performance, UI responsiveness, and cross-device compatibility.

PROJECTS

**NexCord** | *Python, LangGraph, MCP, PostgreSQL, pgvector*

September 2026 – October 2026

- Built an agentic incident commander for live events that detects scheduling and resource conflicts, assesses incidents, and proposes actionable response plans.
- Designed an observe–analyze–approve–execute–verify–recover workflow that required human approval before consequential actions and verified outcomes after execution.
- Integrated LangGraph agents with a self-hosted MCP server and PostgreSQL/pgvector for tool execution, persistent state, semantic retrieval, and an auditable action history.
- Implemented recovery safeguards for failed actions, including rollback-oriented workflows to improve execution reliability.

**SIFSentinel** | *Python, scikit-learn, PyTorch, FastAPI, PostgreSQL, pgvector*

August 2026 – September 2026

- Built an AI/NLP-powered safety intelligence platform to identify potential Serious Injury and Fatality (SIF) precursors in incident, near-miss, and unsafe-condition reports.
- Implemented SIF classification, precursor extraction, IOGP Life-Saving Rule mapping, and risk-based prioritization to surface reports requiring attention.
- Integrated sentence embeddings and PostgreSQL/pgvector for semantic retrieval of similar historical reports and built an interactive safety analytics dashboard.
- Containerized the Next.js frontend, FastAPI backend, PostgreSQL database, and asynchronous ML worker using Docker Compose.

**ClassSense AI** | *Python, MediaPipe, TensorFlow, Flask, Firestore, Gemini*

January 2026 – March 2026

- Developed a real-time classroom attendance system using multi-face detection and deep-learning face embeddings to recognize registered students and automate attendance logging.
- Integrated MediaPipe, TensorFlow/Keras, and Google Cloud Firestore through the Firebase Admin SDK for face processing and cloud-backed attendance records.
- Built a Flask dashboard for student registration, confidence-based attendance marking, searchable records, and Gemini-powered natural-language attendance analytics.

TECHNICAL SKILLS

**Languages & Web**

Python, C++, JavaScript, SQL, HTML, CSS, Next.js, Three.js, Streamlit

**AI / ML & NLP**

PyTorch, TensorFlow/Keras, Scikit-learn, XGBoost, OpenCV, MediaPipe, NumPy, Pandas, Hugging Face, Sentence Embeddings, RAG, Computer Vision, NLP

**Agentic AI & LLMs**

LangGraph, MCP (FastMCP), Amazon Bedrock (Nova), Gemini API

**Backend & Data**

FastAPI, Flask, Django, PostgreSQL, pgvector, Firestore

**MLOps & Cloud**

Git, Docker, Docker Compose, Kubernetes, Linux, MLflow, Google Cloud Platform, AWS

**Core CS**

Data Structures & Algorithms, Object-Oriented Programming, Operating Systems Basics, DBMS

AWARDS & HACKATHONS

**Smart India Hackathon – Internal Round Qualifier**

September 2026

- Qualified through the institutional internal round among **154 teams** with **SIFSentinel**, developed for Oil India Limited’s problem statement 26165.

**EduHacks – First Overall Winner**

December 2022 · MLH

- Built **Slidesmart**, an AI educational tool that turns long YouTube videos and text documents into concise slides; integrated AssemblyAI and Azure Text Analytics for summarization and key-pharse extraction, and contributed to Stable Diffusion image generation and WebAssembly inference.

**NewHacks – Sponsor Prize Winner, Synopsys Smart Everything**

November 2022 · MLH · University of Toronto

- Built **tPay**, a facial-recognition payment-authentication prototype; trained a MobileNet/TensorFlow/Keras model on **3,000+ facial images** and negative samples, then integrated it with Django and SQL for student registration, identity verification, and payment authentication.

**Harvest Hacks – 2nd Place Overall**

November 2022 · MLH

- Earned **2nd Place Overall** with **Weed Detch**, a computer-vision app for crop-weed localization and targeted pesticide use.
- Built the Streamlit frontend and integrated a transfer-learned ConvNeXt detector trained on Google Cloud TPUs to classify plants and return weed bounding boxes.