

G KALYAN RAM

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SUMMARY

Computer Science undergraduate from NIT Andhra Pradesh with a strong foundation in Data Structures, Machine Learning, and Web Development. Experienced in building real-world solutions integrating deep learning models with scalable web architectures. Passionate about solving impactful problems through AI, backed by hands-on research and development in Graph-RAG, NLP, and computer vision projects.

EDUCATION

National Institute of Technology, Andhra Pradesh
B.Tech in Computer Science & Engineering; CGPA: 8.25/10.0

Andhra Pradesh, India
Nov. 2022 – Present

EXPERIENCE

Vision Exploration and Data Analytics (VEDAs) Lab, MNNIT Allahabad

Research Intern

May 2025 – July 2025

- Developed a Personalized Diagnostic Question Answering System (Graph-RAG) by integrating ICD-9 knowledge graphs with a T5-based language model for clinical diagnostic reasoning.
- Designed a hybrid retrieval pipeline combining symbolic graph traversal and dense vector search.
- Implemented RAG to produce context-aware responses; achieved improvements in Recall & BLEU score. **Code:** [GitHub](#)

PROJECTS

American Sign Language Detection | Python, YOLOv5, Streamlit

June 2025 – July 2025

- Built a real-time ASL letter detection system using a custom-trained YOLOv5 model.
- Deployed an interactive web interface using Streamlit to allow image uploads and instant predictions with bounding boxes.
- Demo:** [Live Streamlit App](#) **Code:** [GitHub](#)

Heartbeat Sound Classification | TensorFlow, Keras, Librosa

Jan. 2025 – May 2025

- Worked on an LSTM-CNN model for heartbeat sound classification. Also implemented a Temporal Convolutional Neural Network (TCNN) model for the task. Trained on cardiac sound data, the models aid in early heart disease detection.
- Deployed TCNN model demo on [Hugging Face Spaces](#).

Student Results Management Portal | Python, Django, PostgreSQL

Jan 2024 – May 2024

- Designed a secure student results portal with results, dashboard, analytics and profile pages.
- Implemented efficient PostgreSQL schemas for performance and scalability.

COURSES & CERTIFICATIONS

Fundamentals of Deep Learning (NVIDIA)
Data Analytics (Accenture)
Cloud Computing (NPTEL, IBM Cognitive)

Google Project Management (Coursera)
Machine Learning (Udemy)
AWS Cloud Practitioner

POSITIONS OF RESPONSIBILITY

Joint Secretary

Computer Science and Engineering Association, NIT Andhra Pradesh

CSEA

Sept. 2024–Present

Executive Member

Media Cell of NIT Andhra Pradesh

Graphic Cafe

Sept. 2024–Present

SKILLS

Languages: Python, C, Java, JavaScript, HTML, CSS

Frameworks/Libraries: Django, React, Express, TensorFlow, PyTorch, Streamlit, MLflow

Tools & Platforms: Git, GitHub, Jupyter, PostgreSQL, MongoDB, FAISS, AWS, Node, Hugging Face, Linux

RELEVANT COURSEWORK

Data Structures, Algorithms, OOPS, DBMS, Web Development

Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing