

G Kalyan Ram

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SUMMARY

A versatile Computer Science engineer from NIT Andhra Pradesh, skilled in bridging the gap between Machine Learning and Web Development. Leverages a robust foundation in Data Structures & Algorithms to build end-to-end applications. Proven experience in developing predictive models (TensorFlow) for classification tasks and deploying them through scalable backends (Django) and interactive frontends (React).

EDUCATION

National Institute of Technology, Andhra Pradesh Andhra Pradesh, India
B.Tech in Computer Science & Engineering; CGPA: 8.25/10.0 Nov. 2022 – Present

EXPERIENCE

Vision Exploration and Data Analytics (VEDAs) Lab, MNNIT Allahabad
Research Intern May 2025 – July 2025

- Developed a Personalized QA System integrating knowledge graphs with LLMs to enhance clinical diagnostic reasoning.
- Implemented hybrid IR system combining graph traversal with dense vector search using T5-based language model.
- Achieved significant improvement in Recall, validating potential for real-world clinical applications.

Plasmid
Machine Learning Intern Apr. 2024 – Jul. 2024

- Conducted fake news detection using clustering and NLP to counter misinformation on digital platforms.
- Applied Euclidean and Cosine similarity to group heterogeneous data into interpretable clusters.

Codsoft
Web Development Intern Oct. 2023 – Nov. 2023

- Built a personal portfolio, interactive weather web app, and functional calculator with clean UI/UX.

PROJECTS

Personalized Diagnostic QA System (Graph-RAG) | Python, NetworkX, Node2Vec May 2025 – July 2025

- Engineered a Retrieval-Augmented Generation system with T5 and ICD-9-based knowledge graph.
- Generated 128-dim node embeddings via Node2Vec; used FAISS + symbolic traversal for accurate retrieval.

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 | Django, PostgreSQL Jan. 2024 – May 2024

- Designed a secure results dashboard with role-based access, analytics, and efficient DB schema.
- Technology Stack: Python, Django (backend framework), PostgreSQL.

Online Movie Ticket Booking System | Django, SQLite Sep. 2023 – Dec. 2023

- Created booking system with seat selection, movie listings, and user authentication.

COURSES & CERTIFICATIONS

Fundamentals of Deep Learning (NVIDIA) – Neural networks, training strategies with GPU.

Google Project Management – Agile/Scrum-based project execution.

Data Analytics from Accenture – Analyzed large datasets to uncover patterns for informed decision-making.

Cloud Computing from NPTEL and IBM Cognitive – Gained expertise in managing on-demand IT resources for scalable and cost-effective solutions.

AWS Cloud Practitioner – Cloud services, billing, security best practices.

Machine Learning (Udemy) – Supervised/unsupervised learning and model evaluation.

Corporate Communications from StarWeaver – Gained professional communication skills for effective team collaboration.

POSITIONS OF RESPONSIBILITY

Joint Secretary <i>Computer Science and Engineering Association, NIT Andhra Pradesh</i>	CSEA <i>Sept. 2024–Present</i>
Executive Member <i>Media Cell of NIT Andhra Pradesh</i>	Graphic Cafe <i>Sept. 2024–Present</i>

SKILLS

Languages: Python, C, Java, JavaScript, HTML, CSS	
Tools: Git, GitHub, Jupyter, Jira, PostgreSQL, MongoDB, SQL	
Frameworks: Django, React, Express, MLflow	OS: Windows, Linux,Ubuntu
Soft Skills: Teamwork, Management, Problem Solving	Languages Known: Telugu, Hindi, English

RELEVANT COURSEWORK

Data Structures, Algorithms, OOPS, DBMS, Web Development
Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing

ACHIEVEMENTS

Scored 10 GPA in SSC	Scored 98.4% in Intermediate Public Exams
JEE Mains: 97.6 percentile	TS EAMCET: Rank 1507