

Sai Kiran Patnana

Contact

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Education

IIIT RGUKT Nuzvid 2023 – 2027
B.Tech in Computer Science and Engineering
CGPA: 9.2/10 (till 5th Semester)
PUC (Intermediate) CGPA: 10/10

Research Interests

Large Language Models, Representation Learning, Natural Language Processing, Generative AI, Applied AI in Healthcare, Machine Learning Systems

Technical Skills

Programming: Python, C++, SQL
AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision, LLM Integration, LangChain
Frameworks: PyTorch, Scikit-learn, Streamlit, SQLite, Tesseract OCR
Core CS: Data Structures & Algorithms (375+ LeetCode), DBMS, Operating Systems, COA

Selected Projects

AI-Based Blood Report Parser (IISc OpenHack 2025 – Top 8/2000 Teams)

- Designed and implemented an end-to-end AI pipeline for heterogeneous medical report parsing.
- Integrated OCR (Tesseract), LangChain modules, structured extraction logic, and LLM APIs.
- Developed abnormality detection and longitudinal health trend analytics.
- Implemented SQLite-backed storage and deployed a working prototype.

GenAI-Based Adaptive Quiz System

- Developed LLM-powered assessment platform using Gemini Pro.
- Implemented embedding-based cosine similarity for semantic evaluation.
- Deployed interactive web application using Streamlit.

WhatsApp Chat Analyzer (NLP)

- Designed NLP pipeline using NLTK for sentiment and communication analysis.
- Engineered universal timestamp parsing logic for cross-device consistency.
- Generated temporal visual analytics dashboards.

Internships

NullClass Technologies – Data Science Intern Jan 2024 – Feb 2024
Worked on Computer Vision and Deep Learning projects; implemented model training pipelines.
Teachnook – AI Intern Aug 2023 – Jan 2024
Built sentiment analysis chatbot and explored ML/DL deployment workflows.

Achievements

Top 8 Finalist – IISc Bangalore OpenHack 2025 (Out of 2000+ teams)
1st Prize – Branch Project Expo
2nd Prize – Mega Expo TechFest
Solved 375+ Data Structures and Algorithms problems on LeetCode

Certifications

AI Internship Certification – Teachnook
Data Science Trainee Certification – NullClass Technologies

Additional Information

Languages: English (Professional), Telugu (Native), Hindi (Working Proficiency)

Interests: AI Research, Algorithmic Problem Solving, Emerging AI Systems