

ADITHYA KRISHNA

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SUMMARY

Computer Science and Engineering undergraduate specializing in AI/ML and backend development. Completed a research internship at DRDO (CEMILAC, Bengaluru), contributing to Large Language Model and Vision-Language Model-based RAG systems for defense applications. Experienced in building AI-driven applications, plugin development, and deploying ML pipelines, with a track record of academic, open-source, and applied research projects.

TECHNICAL SKILLS

- Programming: Python, Java, JavaScript
- AI/ML: PyTorch, TensorFlow, Scikit-learn, RAG, finetuning Models, Data Analysis
- Web/Backend: Node.js, Express, Flask, SQL, MongoDB
- Tools: Git, Docker, Gradle
- Other: Plugin/Mod Development, Automation, Team Collaboration

PROFESSIONAL EXPERIENCE

Research Intern – DRDO (on-site Bengaluru) | Jul 2025 – Aug 2025

- Developed a Retrieval-Augmented Generation (RAG) pipeline to enhance document retrieval and interactive Q&A for airworthiness documentation.
- Fine-tuned LLaVA (Large Language and Vision-Assistant) for multimodal tasks, achieving improved accuracy in processing technical queries across text and diagrams.
- Delivered a 40+ page technical report and deployment-ready project documentation, enabling scalability for future defense research use cases.
- Collaborated with senior researchers, applying LLM and VLM models to defense-grade datasets and validating results against real-world requirements.

Open Source Contributor – Minetrax (Web Analytics for Game Servers) | Jul 2024 – Sep 2024

- Built Java plugins to transmit server data for analytics dashboards.
- Contributed to backend architecture; collaborated via Discord and GitHub.

Independent Developer – Minecraft Plugins/Mods | Ongoing

- Published Plugins on Modrinth, 1,000+ downloads.

EDUCATION AND PROJECTS

Bachelor of Technology – Computer Science and Engineering (Ongoing)

Presidency University, Bengaluru | 2024 – 2028

Specializing in Big Data Technology.

Projects

AI-based Phishing Link Detector

- Built a machine learning model using Logistic Regression with a Flask backend to classify phishing URLs in real time.
- Achieved over 90% accuracy in detecting phishing URLs through feature extraction and model tuning.

ASL Detection (American Sign Language)

- Developed a gesture recognition system using TensorFlow and OpenCV.
- Implemented a custom CNN that achieved 97% accuracy in detecting ASL gestures.

StudyAssist for Students (In Progress)

- Developing a Retrieval-Augmented Generation system where students upload study materials (PDFs/notes).
- Built with LangChain, fine-tuned LLMs, and vector databases (FAISS/Chroma) to support document summarization and interactive Q&A.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Malayalam
- **Certifications:** Artificial Intelligence, Career Essentials in Generative AI by Microsoft, JAVA, Python 101 for Data Science.
- **Hobbies:** Chess, Reading, Fitness(Marathon training, GYM) , Music