

Adhithya Laxman R G

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EDUCATION

- Coimbatore Institute of Technology** 2021 – 2025 | Coimbatore, India
B.E. Computer Science & Engineering | CGPA 9.50/10
- Indian Institute of Technology, Madras (IITM)** [↗](#) 2022 – 2025 | Chennai, India
Bachelor of Science in Data Science & Programming (Online) | CGPA 8.53/10
- Carmel Garden Matric Higher Secondary School** 2021 | Coimbatore, India
TN Higher Secondary Examination – 98.02 % (School Topper)

EXPERIENCE

- Samsung PRISM Project Intern - Machine Learning / Deep Learning** 08/2023 – 02/2024 | Coimbatore, India
Samsung India Pvt Limited (Team Project)
- **Work:** Implemented a TensorFlow-based **Conditional GAN** model for guided motion of MNIST images based on user input.
 - Created generated image sequences to showcase cGANs' potential in image manipulation and motion synthesis based on guided motion and condition labels.
 - **Output:** Revealed the transformative capabilities of cGANs in the realm of image modification and motion generation from static images.
- Research Intern** 07/2023 – 08/2023 | Chennai, India
CSIR-Central Scientific Instruments Organisation (CSIO) | [GitHub Link](#) [↗](#)
- **Work:** Explored deep learning using Feed Forward Neural Networks for “Solar panel fault detection”.
 - **Output:** Classified solar panel faults with over 70% accuracy, optimized the neural network with many optimizers such as Momentum, RMSProp, SGD, and Adam, and tuned hyperparameters to improve accuracy.

PROJECTS

- Doc Chat - LLM chatbot for PDFs (Team Project)** | [GitHub Link](#) [↗](#)
Backend Model Developer
- **Work:** Developed a Flask-based PDF chatbot utilizing the **RAG (Retrieval-Augmented Generation)** architecture using similarity search for interaction with PDF documents with HTML/CSS Front End.
 - **Output:** Implemented features including question answering, summarization, last-minute revision creation, and quiz question generation. This tool can be used in-depth for understanding research papers for engineers and students for preparation.
- Blood Connect** | [GitHub Link](#) [↗](#)
- Successfully orchestrated blood donation management, expertly crafting the UI with HTML/CSS, and creating a robust backend with PostgreSQL, Flask, and Python to ensure a seamless user experience.
 - **Output:** Enhanced accessibility and provided vital information about blood unit availability to those in need.
- Lyric Lullaby - Music Streaming Application** | [GitHub Link](#) [↗](#)
- Robust music streaming app with features like authentication, user role abstractions, and admin dashboard.
 - **Output:** Improved music discovery with powerful search functionality and seamless .mp3 file support, playlist creation, uploading songs by artists and maintaining policies by the admins using FLASK, SQLAlchemy, HTML, CSS and JavaScript.

SKILLS

- **Programming Languages and Frameworks:** Python, C++, C, R, Java, Flask, HTML, CSS, Node.js, TensorFlow
- **Tools and Technologies:** Git, GitHub, Windows, Linux (Ubuntu), MySQL, Figma, MongoDB, PostgreSQL, Jenkins, Maven
- **Areas of Interest and Soft Skills:** Deep Learning, Full Stack Development, Competitive Programming, Leadership, Public Speaking

ACADEMIC ACHIEVEMENTS

- Received **2nd place** out of 48 teams, at the Innovision'24 Hackathon for implementing an LLM Chatbot for PDFs. [2024] | [Project Link](#)
- Secured **1st place** out of 16 teams, at the Internal Hackathon for **Smart India Hackathon**. [2023]
- Secured **first place** in the **reverse coding contest** at Syllogism'23 held at the Institute level [2023]
- Solved over 350 problems on Leetcode. **Highest Contest Rating: 1919* (Knight Badge - Top 5% in the world)** | [Leetcode Profile](#) [↗](#)
- School topper in class 12 and class 10 board examinations conducted by Tamil Nadu State Board.

LEADERSHIP POSITIONS

- **Google Developer Student Club CIT:** As Secretary, planned and executed a variety of events and Hackathons. [2023-2024]
- **Association for Computing Machinery CIT:** Served as Vice Chairman, overseeing and coordinating numerous events. [2024]
- **Smart India Hackathon:** Led a team of 6 to secure first place among 16 teams in the Internal Hackathon for **Smart India Hackathon**[2023].