SHIVASHIGA A.M

Email | Linkedin | Github | Portfolio

EDUCATION

Chennai Institute of Technology, Chennai 2023 - 2027
B.E Computer Science and Engineering(AIML)
Current CGPA: 8.93

PROFESSIONAL EXPERIENCE

Summer Intern May 2025 - June 2025
National Institute of Technology, Trichy (Onsite) | Repo link
- Developed and implemented Meta-learning models (e.g., prototypical networks) for multi-class lung disease classification under limited data conditions.
- Successfully built a lightweight diagnostic tool suitable for deployment in resource-constrained healthcare environments.

Undergraduate Researcher Dec 2023 - Present
Centre for Additive Manufacturing, Chennai Institute of Technology, Chennai
- Applied ML and computational modeling to optimize 3D printing processes.
- Built predictive models to enhance material selection and efficiency.

Machine Learning Intern | Certificate Dec 2024 - Feb 2025
HCLTech, Sholinganallur, Chennai (Hybrid) | Repo link
- Built a machine learning-based data plan recommender with a scalable front-end and MongoDB backend.
- Improved user engagement and telecom decision-making through behavior-based personalization. Scalable and user-friendly architecture.

PROJECTS

Legal AI Platform - Law Ecosystem | *LangChain, Legal-BERT, BART, MongoDB, Flask, NLP*
- Developed *LawBot Judiciary*, a multilingual AI legal assistant that leverages Legal-BERT and BART for legal query resolution, document generation, and contextual argument formulation.
- Integrated LangChain for task automation and Google APIs for appointment scheduling, offering a unified, accessible platform for legal assistance in multiple languages.

Sustainable Tourism App | *Streamlit, Snowflake, Folium, OpenAI*
- Developed an interactive eco-tourism app with maps, travel tips, and data insights using Streamlit and Snowflake.
- Integrated an OpenAI chatbot and quiz to promote sustainable travel awareness.

Intelligent Forecasting in 3D Printing | *Python, ML (XGBoost), Data Science, 3D Printing*
- Predicted mechanical properties using input parameters like infill, layer height, material.
- *Real-time optimization with data feedback loops.*

TECHNICAL SKILLS

Programming Language: Python, Java
Web development: HTML, CSS, JavaScript, Flask, Streamlit
AI/ML: Scikit-learn, Prototypical networks, Pytorch, XGBoost, RandomForest, Prototypical networks
Database: MongoDB, Snowflake
LLM: Legal-BERT, BART, Ollama
Tools: Github, VSCode, Jupyter Notebook

ACHIEVEMENTS AND CERTIFICATIONS

AWS Cloud Practitioner - Validates foundational cloud skills March 2025 - March 2028
Electrothon'24(Runner-Up) - Recognized for innovative AI project at CIT Chennai hackathon
NPTEL: Deep Learning - Understanding of neural networks and training strategies
LeetCode - Solved 470+ problems, 1750+ rating(top 9% percentile globally)
CodeChef - Solved 350+ problems, 1250+ ratings