

Tharukesh S D

+91 6382445281 | tharukesh40@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

EDUCATION

St. Joseph's College of Engineering, Chennai B.Tech - Artificial Intelligence and Machine Learning	May 2022 - Current CGPA - 8.33
Peniel Matriculation Higher Secondary School XII std	July 2021 - June 2022 83%

WORK EXPERIENCE

AIML Intern – Scanflow AI	October 2025 – Present
<ul style="list-style-type: none">Worked on Digital AI/ML Mobility Engineering projects including migrating Xamarin applications to .NET MAUI, developing and releasing mobile SDKs for iOS (Swift with CocoaPods) and Android (Maven), and building Flutter applications with end-to-end development, packaging, and publishing to the App Store and other platforms.	
AI Intern – Sustain Planet Technologies LLP	May 2025 – July 2025
<ul style="list-style-type: none">Developed an AI chatbot for a student-focused sustainability platform, enabling Q&A from academic and policy documents using NLP. Structured unstructured data aligned with SDGs, GRI, and BRSR, earning a 10,000 monthly stipend for impactful contributions.	
Telecommunication Intern – CBTS Technology Solutions India LLP	June 2025 – July 2025
<ul style="list-style-type: none">Learned core telecom concepts, including network components, incident types, and troubleshooting protocols, while assisting the monitoring team in tracking, validating, and escalating incidents with cross-functional coordination.	
Cloud Computing Intern – Zoho Corporation (Site24x7 Team)	July 2024 – August 2024
<ul style="list-style-type: none">Optimized GCP billing by automating workflows, analyzing usage data, and delivering insights that improved resource allocation and reduced cloud infrastructure costs in collaboration with the Site24x7 team.	

PROJECTS

AI-Powered PDF Question-Answering Chatbot – Azure Cloud Deployment

- Built an Agentic AI-powered RAG chatbot using Azure OpenAI LLM for summarization and Q&A over crawled PDF and web content. Crawled and chunked data into MongoDB via PyMuPDF; deployed with Streamlit, Docker, and Qdrant on Azure VM/Web App.
- Tech Stack: Azure OpenAI, Qdrant, MongoDB, Streamlit, Docker, Python

Next-Generation Semantic PubMed Search System with GenAI Integration

- Built a semantic PubMed search system with FastAPI backend and React frontend, integrating GenAI for query optimization and abstract summarization, featuring keyword highlighting, search history, personalized dashboard, and a real-time chatbot, with optional MongoDB caching for faster retrieval and improved user experience.
- Tech Stack: FastAPI, React.js, MongoDB, GenAI (Groq/LLM), PubMed E-utilities (ESearch, ESummary, EFetch), JWT, Docker, Azure

TECHNICAL SKILLS

Programming Languages: Python, Java

Technical Skills: Python for Deep Learning, Java for DSA, Machine Learning Algorithms, Natural Language Processing, Feature Engineering, Model Development, Fine Tuning, SQL, Computer Vision, Generative AI, Responsible AI, Azure (Virtual Machine, Azure Databricks, Azure AI Foundry, AI Search, Container, Kubernetes, Azure Cosmos DB, Storage accounts), AWS (EC2, Sagemaker AI, Bedrock, ECS, DynamoDB, IAM, S3, CloudTrail)

Tools and Technologies: Streamlit, Gradio, MongoDB, GitHub, Scikit-Learn, TensorFlow, Keras, LLM, LangChain, Transformers, RAG, Vector DB (CHROMA, FAISS), Word Embeddings, FastAPI, N8N, Docker

PUBLICATIONS

Experimental and predicted values of biodiesel yield (%) obtained from blended oil using biochar catalyst
Dr. Sumathi S, Dr. G. Baskar, Tharukesh S D, Ajay J
Publication in progress, expected completion by mid-September 2025

ACHIEVEMENTS

- Winner - IIT Madras Shaastra Hackathon
- Winner - IIT Madras Shaastra Hackathon 2
- Notable Participant - IIT Bombay Mapathon
- Skillrack - 500+ problems
- Leetcode - 300+ problems