

PROFESSIONAL SUMMARY

Innovative AI & Machine Learning Engineer with hands-on experience in developing, optimizing, and deploying intelligent systems using Python, FastAPI, and PyTorch. Skilled in integrating LLMs, Generative AI, and Computer Vision to automate complex workflows and enhance decision-making. Passionate about transforming real-world challenges into scalable, data-driven AI solutions.

TECHNICAL SKILLS

AI / ML Frameworks: PyTorch, Scikit-Learn, OpenCV, LangChain, Hugging Face, Transformers

Programming Languages: Python, C, Java

Backend & Deployment: FastAPI, Streamlit, Flask (basic), Git, VS Code, Jupyter Notebook

Data Handling: Pandas, NumPy, Tesseract OCR, YFinance

Cloud Platforms: AWS, Azure, Google Vertex AI (Basic Overview)

Visualization: Chart.js, Matplotlib, HTML/CSS Dashboards

Other Tools: Prompt Engineering, Model Optimization, API Integration

WORK EXPERIENCE

CubeAI Solutions – AI/ML Developer Intern [Link](#)

Mar 2025 – Jun 2025

- Contributed to a Construction Automation Project (Thulasi Mixed-Use Development) transforming procurement and on-site operations.
- Developed FastAPI-based automation modules for purchase orders, batch slips, and invoices integrated with Tally for GST and inventory tracking.
- Designed and deployed a LangChain-powered LLM Assistant for intelligent query handling, documentation automation, and real-time decision support.
- Collaborated on YOLO-driven material verification and data analytics dashboards, improving accuracy, transparency, and process efficiency across modules.

PROJECTS

Finance Agent AI [Link](#)

Aug 2025 – Oct 2025

AI-Powered Stock Market Analysis with Real-Time Insights and Visualizations

- Built a full-stack AI agent platform for stock analysis using Groq LLM with the PhiData framework.
- Integrated a FastAPI backend and a Chart.js frontend for dynamic visual comparison of market trends, P/E ratios, and key metrics.
- Designed a modern, gradient-based UI/UX with interactive charts, loading states, and smooth animations.
- Enhanced data parsing, error handling, and output formatting for a professional, responsive user experience.
- Tech Stack: Python, FastAPI, Groq API, PhiData Agents, Chart.js, HTML, CSS, JavaScript.

SmartFood AI [Link](#)

Feb 2025 – Mar 2025

- AI-based food recognition and nutritional analysis from images.
- Personalized diet and meal recommendations based on user preferences.
- Ingredient-based recipe suggestions with smart cooking guidance.

Book Recommendation System [Link](#)

Jul 2024 – Aug 2024

- Built a personalized recommendation engine using collaborative filtering and user preferences.
- Deployed as a Flask web app with a responsive frontend interface.
- Tech Stack: Python, Scikit-Learn, Pandas, Flask, HTML, CSS, JavaScript.

CERTIFICATIONS

- Coursera (AWS x DeepLearning.AI):** Generative AI with Large Language Models [Link](#) Oct 2025
- Kaggle:** Computer Vision Certification [Link](#) May 2025
- NVIDIA DLI:** Getting Started with AI on Jetson Nano [Link](#) Jan 2025
- Linguaskill (B1):** Communication Skills Certification [Link](#) May 2024
- NPTEL:** Introduction to Programming in C (Elite + Silver) [Link](#) Apr 2024
- LinkedIn Learning:** Learning Data Science – Understanding the Basics [Link](#) Apr 2024

EDUCATION

- B.E. – Computer Science and Engineering (AI & ML) | CGPA: 8.4
Dr. Mahalingam College of Engineering and Technology, Coimbatore | 2023 – 2027
- HSC – PKP Swamy Matric Hr. Sec. School, Erode | Mar 2023 | 85.3%
- SSLC – PKP Swamy Matric Hr. Sec. School, Erode | Mar 2021 | Passed

ACHIEVEMENTS

- Winner – **Smartathon 2024**: AI-based Innovation Challenge
- **Technofete 2025**: 3× First Prizes & 1× Second Prize in AI and Automation events
- Winner – Web Designing Contest (**Hilaricas 2024**)

SOFT SKILLS

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|-----------------|----------------------|---------------------|
| • Leadership | • Collaboration | • Problem Solving |
| • Documentation | • Innovation Mindset | • Research Aptitude |

EXTRACURRICULAR ACTIVITIES

- Active member – **Youth Red Cross (YRC)**; participated in blood donation camps and community drives.
- Organized and volunteered in college **AI workshops and hackathons**.
- Competed in inter-college **AI/ML** and **web development** challenges.
- Advocate for **Responsible & Ethical AI** initiatives.