Lalfakawma Vangchhia

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Summary

AI & Machine Learning Specialist with experience in full-stack development, OCR automation, and generative AI. Skilled in building scalable FastAPI/Django systems, deploying CI/CD pipelines, and delivering business impact.

Work Experience

AI Software Developer (ThorSignia)   Apr. 2025 – Aug. 2025

- Developed AI-driven apps combining **ML, LLMs, and automation pipelines**.
- Built **recommendation systems** and **translation workflows** using **Django, FastAPI, PostgreSQL**.
- Created scalable **APIs** and deployments with **Docker** and **CI/CD**.
- Collaborated on AI-powered **CRM** and **OCR** systems; optimized a business-card scanner to **~95%** accuracy for real-time extraction.
- Integrated **generative AI** and automation (scheduling, webhooks, API-driven workflows).

AI & Programming (Freelance / Academic Projects)   2023 – 2025

- AI & Full-Stack Developer on freelance & academic projects: built CRM tools, OCR automation, social-media automation, and an e-commerce booking system.
- Integrated automation & translation APIs; implemented backends with **Django / FastAPI** and **PostgreSQL**.
- Researched recommender systems, reinforcement learning, and LLM personalization using the **MovieLens** dataset.
- Delivered end-to-end solutions including deployment (Docker, CI/CD) and API integrations.

Skills

- **Programming:** Python, SQL
- **AI & ML:** Machine Learning, Neural Networks, Generative AI, Prompt Engineering, LLM concept.
- **Backend & Tools**: Django, FastAPI, Docker, Postman, PostgreSQL, PyTorch, Tensorflow, sklearn.
- **Automation & Integration**: n8n, Make.com.
- **Other Skills**: Full-Stack Development, API Integration, CI/CD, Facebook Graph.

Education

2023 – 2025	MCA at CMR University	(CGPA: 8.72/10.0)
2020 – 2023	BCA at Govt. Champhai College	(CGPA: 8.88/10.0)

Publications

Trapped in the Loop: The Pervasive Influence of Deep Neural Networks on Social Media. url: https://www.ijcrt.org/papers/IJCRT2508451.pdf

Projects

Mobile CRM & Business-Card Scanner: React Native CRM with offline sync + DRF backend; OpenCV + LLM + lightweight PyTorch OCR auto-extracts contacts into PostgreSQL (≈95% accuracy).
Example: snap a card → contact appears with call & booking buttons (~2s).

Social Media Automation (FastAPI + Facebook Graph API): Async FastAPI service with Redis workers to schedule/batch posts via Facebook Graph API; Dockerized and CI/CD deployed.
Example: schedule a post → system publishes at set time and logs status.

RAG Chatbot with LLM (Django + Vector DB): Built a RAG-based chatbot using Django and vector DB for contextual retrieval with LLM, RESTful API for the backend and PostgreSQL for relational database.
Example: query "BM25" → retrieves docs + LLM gives precise answer.