

Yash Prajapati

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PROJECTS

Mobot: A RAG-based AI Assistant for Moweb

- Orchestrated a **serverless RAG** pipeline using Google Gemini's **FileSearch tool API**, automating **vector retrieval** and **context management** to ensure high-accuracy, domain-specific responses without manual indexing overhead.
- Integrated the AI assistant into the organization's **official live website**, establishing a seamless frontend-to-backend communication loop that delivers **context-aware user support**.

Partial Line Loss Correction: Certificate

- As a part of **ISRO's research**, single-handedly developed a **ConvLSTM**-based model for predicting missing data in INSAT 3DS satellite images, using thousands of image sequences.
- Implemented a binary mask approach to **restore missing pixels**, normalizing pixel values and achieving a **MAE of 0.006**, and **accuracy** of about **98%** with minimal image modifications.

EXPERIENCE

Associate AI/ML Engineer, Moweb Technologies

Jan. 2026 – Present

- Developed a **production-grade AI-powered time entry assistant** using Groq API with a 2-second debounce mechanism for real-time description suggestions; implemented a **5-key round-robin rotation strategy** to sustain seamless performance across **60-70 concurrent users**.
- Integrated Langfuse** for full LLM observability in production, enabling prompt versioning, trace monitoring, latency and cost tracking to ensure reliability and continuous optimization of AI-driven workflows.
- Engineered a **multi-stage data extraction pipeline** using Python and `curl_cffi` to automate sourcing of **9,587+ business leads** from BrownBook, leveraging Cloudflare bypass techniques and rate-limit handling for resilient, uninterrupted scraping.

AI/ML Intern, Moweb Technologies

Aug. 2025 – Dec. 2025

- Architected an end-to-end autonomous **Lead Generation Agent** using n8n, **LLM APIs** and Apify actors to scrape leads from Google Maps and landing page text data, generating hyper-personalized **outreach emails** that automated the entire funnel from discovery to delivery.

Research Intern, SAC-ISRO, Ahmedabad

Jan. 2025 – Apr. 2025

- Conducted research in the fields of **image reconstruction** and **image prediction** using various **CNN models** and **LSTM**.
- Utilized **INSAT-3DS Satellite** data by **MOSDAC, ISRO** for training the model for the image prediction. The research achieved an **accuracy** of about **98%** with **MAE** of **0.0006**.

SKILLS

AI Automation: LangChain, LangGraph, AI Agents, n8n, LLM APIs, Langfuse

Generative AI: LLMs, NLP, RAG (Retrieval-Augmented Generation), Vector database, Prompt Engineering

ML/DL: Supervised & Unsupervised Algorithms, CNN, LSTM, Transformers

Libraries & Frameworks: TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, OpenCV

Programming Languages: Python

Tools: GitHub, Visual Studio Code, Jupyter Notebook, Google Colab, Cursor

Soft skills: Patience, Leadership, problem-solving

EDUCATION

Bachelor of Engineering, Information and Communication Technology (ICT)

Oct. 2021 – June. 2025

Sal Institute of Technology and Engineering Research, Ahmedabad, **CGPA: 7.72**

ACHIEVEMENTS

- Enhanced a **skin cancer detection POC** by redesigning the CNN architecture and data augmentation pipeline, enhancing **accuracy from 76% to 91%** and improving model sensitivity through *recall*-based evaluation.
- Led** university football team to **3 inter-college championships** by valuing every player and making **quick, strategic** on-field decisions.