

Yash Prajapati

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PROJECTS

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.

Lead Generator agent: JSON file

- Engineered** an AI-powered lead generation agent in **n8n** to automate the end-to-end prospecting workflow.
- Automated web scraping** using **Apify** to collect business data from target locations.
- Processed and summarized** text with **Hugging Face (BART)** for concise business insights.
- Generated** personalized HTML marketing emails through the **Cohere API**, tailored to company profiles

EXPERIENCE

AI/ML Intern, Moweb Technologies Pvt. Ltd

Aug. 2025 – Present

- Developed an **AI-driven lead–property matching system** using **content-based filtering with cosine similarity**, replacing the client's existing rule-based recommender.
- Improved **CNN model accuracy from 76% to 91%** by **redesigning the network architecture** and optimizing hyperparameters for image classification.

AI/ML 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: n8n, AI APIs, LangChain, Langraph, MCP

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

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

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

Programming Languages: Python, JavaScript

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

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, achieving **91% accuracy (from 76%)** 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.