

Yash Prajapati

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PROJECTS

Partial Line Loss Correction

- As a part of **ISRO's research** developed a **ConvLSTM**-based model for predicting missing pixels 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 0.0006**, and **accuracy** of about **98%** with minimal image modifications.

Wanderlust: A Hotel Booking Website:

- Created a **robust hotel exploration platform** using the **MERN stack** with signup/login features.
- Has implementation and showcase of various **CRUD operations**.

Portfolio Website:

- Designed** and **deployed** an **aesthetic** and **responsive portfolio website** highlighting multiple projects and showcasing expertise in various technical skills.

EXPERIENCE

Research Intern, SAC-ISRO, Ahmedabad

Jan. 2025 – Apr. 2025

- As a **researcher** at **ISRO**, I am researching on the fields of **image reconstruction** and **image prediction** using various **CNN models** and **LSTM**.
- Utilizing **INSAT-3DS Satellite** data by ISRO for training the model for the image prediction. The ongoing research has found to have an **accuracy** of about **98%** with **MAE** of **0.0006**.

Software Developer Intern, GIFT-City Company Limited, Gandhinagar

Jun. 2024 – Jul. 2024

- Developed a **DOP application** for employees, enhancing user experience, **reducing paperwork** by **75%** and **process time** by **25%**.
- Integrated a **crucial update** and **resolved a critical bug** on the official website, **improving stability** by **40%**.

SKILLS

Data Science & Machine Learning: Deep Learning, Computer Vision, Supervised Learning, Model Optimization, Data Preprocessing, CNN, LSTM, ANN

Programming Languages: Python, JavaScript, C

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

Web Development: HTML, CSS, Node.js, Express.js, React.js, SQL, Mern Stack

Tools: Git, GitHub, Visual Studio Code, Jupyter Notebook

CERTIFICATION

- Google AI Essentials** (Google Career Certificates)
- Full Stack Development** (Certificate of Completion by **Apna College**)

EDUCATION

Bachelor of Engineering, Information and Communication Technology (ICT)

Oct. 2021 – Apr. 2025

Sal Institute of Technology and Engineering Research, Ahmedabad, **CGPA: 7.33**

ACHIEVEMENTS

- Led my university football team** as **Captain** to three consecutive inter-college championships, and also motivated and supported the team.