Dhruv Rajeshkumar Limbad

✉ limbaddhruv03@gmail.com | ⦿ dhr03 | in dhruvlimbad | ☎ +91 9099832130

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology　Gandhinagar, India
Information and Communication Technology　CGPA: 8.17　*2021 – 2025*

WORK EXPERIENCE

Techify Solutions Pvt. Ltd. | Ahmedabad, Gujarat | *AI/ML Trainee*　*January 2025 - Present*

- Engineered a **multi-agent travel assistant chatbot using LangGraph**, enabling seamless end-to-end workflows for flight bookings, hotel reservations, and personalized itinerary planning.
- **Reduced token usage by 70%** through the implementation of intelligent chat history management, significantly improving LLM efficiency and cost-effectiveness.
- Developed and deployed a microservice for an **LLM-driven SKU recommendation system**, generating personalized industry recommendations based on company profiles and campaign-specific data.
- Applied a **Genetic Algorithm** to refine SKU selection, incorporating mass preference and SKU popularity to optimize for both **personalization and market relevance**.

DA-IICT | Gandhinagar, Gujarat | *Research Intern*　*May 2024 - July 2024*

- Explored **coreset construction algorithms** for scalable machine learning, focusing on k-means clustering on large datasets.
- Studied and implemented **Sensitivity Sampling** to construct compact, weighted summaries preserving clustering structure.
- Applied **dimensionality reduction (PCA)** in conjunction with sampling to enhance subset representativeness.
- Reduced the size of the dataset **CoverType** from **500,000 to 2000 datapoints** while maintaining clustering fidelity.

PROJECTS

SummaRuNNer: Extractive Text Summarizer

- Implemented the SummaRuNNer model to perform extractive summarization on the CNN/DailyMail dataset using bidirectional GRU.
- Leveraged Rouge-L based labeling to enhance training data alignment with reference summaries achieving an **average Rouge-1 score of 27.8%** on the test dataset.

Plant Disease Identification using CNN | ⦿

- Designed and developed a CNN model for image classification using a plant disease dataset.
- Experimented with several base-models and fine-tuned with different methods to achieve better generalization.
- Achieved training accuracy of **98.9%** and testing accuracy of **96.7%**.
- Deployed the pyTorch model using **Flask and FastAPI** and integrated its REST API with React.

WanderWiz: Travel Itinerary Planner | ⦿

- Developed a Full Stack website using **MERN tech stack** in a team of 10 developers.
- Leveraged **Agile development environment** for maximum productivity.
- Contributed in Backend, documentation, load testing & UI testing.

POSITION OF RESPONSIBILITIES

- **Teaching Assistant, Introduction to Programming** Assisted in delivering foundational programming concepts to first-year students, including mentoring, doubt-solving, and grading assignments..
- **Core Crew, Concours'23** Co-organized DA-IICT's Annual Sports Festival, overseeing team registrations, managing sponsorships, and ensuring smooth execution of all basketball events.

SKILLS AND EXPERTISE

Frameworks & Tools:	AWS, PyTorch, TensorFlow, Transformers, LangChain, LangGraph, FastAPI, Flask, MCP, Agno, n8n, ReactJS, NodeJS, NextJS, CSS, Git, pgSQL, HTML
Programming Languages:	Python, Javascript, Typescript, SQL, C, C++, Rust
Areas of Interest & Skills:	Software Development, Object Oriented Programming, Database Management Systems, Cloud Computing, DSA, Computer Networks, Operating Systems, Machine Learning, Prompt Engineering