

Dhruvkumar Patel

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EDUCATION

IIIT Delhi

Masters of Technology in Computer Science, CGPA: 8.00

New Delhi

Aug 2024 – present

LDRP-ITR

Bachelors of Engineering in Information Technology, CGPA: 8.14

Gandhinagar, Gujarat

Aug 2020 – Jun 2024

EXPERIENCE

Graduate Student Researcher

MIDAS Lab

Jan 2025 – Present

IIIT Delhi, New Delhi

- Developed a FastAPI + Celery-based API to detect annotation anomalies in the dataset using multi-modal LLMs
- Enabled async batch processing and generated visual analytics for annotation correctness
- Delivered a deployable local service as part of an independent Winter Semester project

Jr. Software Developer Intern

Ishitva Robotic Systems

Jan 2024 – Jun 2024

Ahmedabad, Gujarat

- Developed a synthetic data generator using OpenCV to streamline training process of object detection models
- Improved model accuracy by 4%, reaching 93% detection accuracy through data augmentation and optimizations
- Conducted image clustering experiments on large datasets of transparent masks to automate annotation

PROJECTS

Mental Health Meme Classification | NLP Course Project

Mar 2025 – Apr 2025

- Enhanced M3H model by adding visual features for classifying anxiety and depression symptoms from memes
- Fine tuned MentalBART model to classify depression/anxiety memes via OCR + visual reasoning
- Achieved 65% macro F1 (single-label) and 63% macro F1 (multi-label)
- Deployed inference pipeline and UI using Streamlit

Advanced ANPR and FR System | KAVACH-24 Hackathon (Runner-up)

Feb 2023 – Aug 2023

- Led 6-member team in developing ANPR and FR system in collaboration with Ahmedabad West Traffic Police
- Collected and annotated high-definition traffic footage dataset
- Built ANPR & FR system using YOLOv8, EasyOCR & Siamese networks
- Delivered 92% precision (ANPR), 89% accuracy (classification); integrated with React Native front-end

Student Dropout Analysis | SSIP-22 Hackathon (Winner)

Aug 2022 - Feb 2023

- Predicted dropout rates using government UDISE+ data with Polynomial Regression (R^2 : 0.9976)
- Built streamlined data analytics dashboard web application using React to provide detailed analytics
- Published results in IEEE I2CT 2024

Centralized Academic Resource Website | Hobby Project

Jul 2022 - Dec 2022

- Built a Weebly-based academic portal; reached 3,000+ visits and 1,000+ users in a week

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate

Expiry: June 2025

- Credential ID: E569DA1CD528CDA5 — Certification number: BZ18F6-5D5DD8

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, FastAPI, Material-UI, FastAPI

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio

Libraries: pandas, NumPy, Matplotlib, PyTorch, Hugging Face