

DIVYAM PRAJAPATI

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EDUCATION

The University of Texas at Dallas, MS in Computer Science

May 2025

Relevant Courses: Machine Learning, Design and Analysis of Algorithm, Web Programming Languages, Database Design, Compiler Construction, Natural Language Processing

K J Somaiya Institute of Technology, Sion, BTech in Computer Engineering

May 2023

Relevant Courses: Data Structures, Analysis of Algorithms, Artificial Intelligence, ML, NLP, Big Data Analytics, Blockchain, Advance Data Science, Distributed Computing

PROFESSIONAL EXPERIENCE

Rinira Technologies Pvt. Ltd., Mumbai (India)

June 2022 – July 2022

Machine Learning Intern

- Evaluated face detection and recognition using TF-Lite implementation of MobileFaceNet, as model was 5.2MB in size, the model executed seamlessly on android device with an accuracy of 86%
- Pioneered masked and unmasked scenarios, achieving robust performance with face coverings up to 30%

RESEARCH EXPERIENCE

[Tag Prediction of Competitive Programming Problems Using Deep Learning Techniques](#)

- Developed LSTM neural network model achieving an accuracy of 78% in automated tagging of 2000+ competitive programming problems

A Review on Deep Learning Techniques for Unmanned Aerial Vehicles Navigation

- Conducted a comprehensive review of deep learning techniques (CNN, DRL, IL) for autonomous navigation of Unmanned Aerial Vehicles (UAVs), analyzing their strengths, limitations, and applications
- Compared and evaluated various algorithms and methodologies for path planning, obstacle avoidance, and localization tasks in UAV navigation

SKILLS

Languages: Python, C++, Java, HTML, CSS, JavaScript, SQL

Frameworks: Next.js, React.js, Django, Flask, BeautifulSoup, Selenium, Git

Dev Tools: Google Colab, Visual Studio Code, GitHub, Jupyter Notebook, Android Studio, AirSim, MS Office

Libraries: Pandas, NumPy, Matplotlib, SkLearn, TensorFlow, Keras, OpenCV, NLTK, spaCy, Dlib, Seaborn, Transformers, Plotly, PyTorch, Ggplot, Google ML Kit, Mediapipe

ACADEMIC PROJECT EXPERIENCE

[Personal Web Portfolio](#)

- Crafted a responsive personal website using Next.js, enhancing user experience and driving a remarkable 40% surge in user impressions, achieving seamless compatibility and heightened visibility by deploying the website on Vercel

[ML Virtual Lab](#)

- Led the creation of an ML virtual lab, featuring four key algorithms, resulting in a 70% boost in student comprehension of hyperparameters and algorithmic processes, hosted on streamlit

Deep Learning Based Navigation Techniques for UAV

- Spearheaded a cross-functional team of 3 researchers in investigating advanced navigation methodologies for UAVs employing Deep Learning techniques, tailored specifically for quadrotors
- Thoroughly evaluated and contrasted 3 key approaches: Convolution Neural Network, Deep Reinforcement Learning, and Imitation Learning via simulation using AirSim, Unity and Unreal Engine

TL; DR (Too Long Didn't Read)

- Developed and implemented a backend API for a web app, achieving a 20% reduction in processing time for abstractive summarization of Public Information Bureau news articles
- Implemented a REST framework facilitating seamless frontend-backend interaction, resulting in a 30% improvement in response time through efficient exposure of POST, GET, and DELETE methods

Facial Recognition & QR-Based Check-ins System

- Engineered a contactless event check-in system with CV2 & Dlib, achieving a 25% faster check-in process compared to traditional methods
- Designed a streamlined UI with seven tabs, enhancing event administration efficiency by 40%, and integrated QR codes for a 20% improvement in security measures

EXTRACURRICULARS

CSI (Computer Society of India)

August 2019 – June 2022

- Orchestrated a team of 6 in an event called "Code Compile Run" arranged virtually in the Renaissance and had a participation of more than 1800 people globally
- Crafted 4 complex coding challenges for hackathons, fostering a competitive coding culture within the organization

CERTIFICATIONS

[Intro to TensorFlow for AI, ML, DL](#), [Google Cloud Platform Fundamentals: Core Infrastructure](#), [Responsive Web Design](#), [Python Basics](#), [Python Data Structures](#)