

Drashti Parmar

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Profile

Machine Learning Engineer proficient in Python and ML frameworks. Experienced in data preprocessing, model development, and analysis. Strong analytical skills and a drive for solving complex problems. Dedicated to contributing to innovative projects and continuous learning in ML.

Experience

ML ENGINEER | SAMYAK INFOTECH PVT LTD | JULY 2023 - PRESENT

- Proficient Junior Machine Learning Engineer at Samyak Infotech Private Limited, contributing expertise to various projects.
- Experienced in the following projects
 - **OCR Data Extraction:** Built an advanced data extraction system using PaddleOCR and LLMs (Phi-3, Mistral, Gemma) to extract key fields from invoices, student marksheets, vehicle bills, and purchase orders. Optimized accuracy by experimenting with multiple models. Integrated with Tally for seamless data processing and management.
 - **TraqueX:** Independently developed Python backend APIs for this client project, encompassing multiple modules including user management, client management, and a comprehensive HRMS module. Integrated Firebase for real-time notifications and implemented full-day agent path tracking with high accuracy.

Added location tracking functionality and managed user coordinates efficiently. Applied the Kalman Filter and custom algorithms to smooth routing maps and ensure precise visual representation. Built several Windows service schedulers to automate expense calculation and auto-checkout tasks based on location data. Enhanced functionality by creating robust order and collection management modules, facilitating seamless management of field operations and financial transactions.
 - **Scout Bravo:** Contributed to a client project focused on school management, specifically developing Python backend APIs. Collaborated on user and admin interfaces, event management, and integrating mobile chat functionality using sockets.
 - **SFTP Slicer:** Developed a solution to download files from SFTP, convert Excel to JSON, and send it to the client URL.
 - **Flow Builder:** Utilized LLM to extract key information from form images and workflow details, converting it into JSON for delivery.
 - **Cloud Gauge:** Developed a Cloud Segmentation system utilizing Computer Vision techniques to analyze cloud coverage from uploaded images. Trained an EfficientNet-UNet model from scratch for precise cloud segmentation. Implemented camera calibration methods to enhance image accuracy and improve segmentation results. Deployed the solution on **NVIDIA Jetson** edge devices for real-time, low-power image inference in remote environments.
- Worked on data extraction from marksheets and vehicle registration invoices using OCR technology.

ML INTERN | SAMYAK INFOTECH PVT LTD | JANUARY 2023 – JUNE 2023

- Independently developed a video summarization and generation project with senior guidance.
 - Added functionality to summarize YouTube videos using a transformer summarizer model.
 - Converted text into audio using the pyttsx3 Python library.
 - Implemented action recognition from small videos using Kinetic and UCF Data 101 datasets.
 - Developed person detection functionality using the MobileNet pre-trained model.
 - Generated images from prompts using Stable Diffusion.
 - Created videos from images using the moviepy library.
- Conducted testing for various projects to ensure functionality and performance.
- Performed data annotation of invoices to train the PaddleOCR model.

Education

BACHELOR OF TECHNOLOGY | INFORMATION AND COMMUNICATION TECHNOLOGY | JULY 2023 | PANDIT DEENDAYAL ENERGY UNIVERSITY, GANDHINAGAR, GUJARAT

Graduated with a CPI of 9.39/10 from a NAAC A++ Graded university.

HSC | JUNE 2019 | ALEMBIC VIDYALAYA, VADODARA

Completed 12th grade in the Science stream (Group A) with a focus on Physics, Chemistry, and Mathematics.

SSC | JUNE 2017 | ALEMBIC VIDYALAYA, VADODARA

Courses

- **Applied Machine Learning, Deep Learning & Computer Vision with Python**, Electronics and ICT Academy, NIT Patna (June 2022 - July 2022)
- **Joy Of Computing Using Python**, NPTEL (July 2021 - October 2021)
- **“SQL and Relational Database Course”** on Cognitive Classes Powered by IBM Developer Skills Network. (May 2021 - June 2021)

Certificates

- Paper Presentation on "**An Effective Framework for Predicting Stroke Prediction using Machine Learning Technique**", IEEE International Conference on Electrical, Computer and Communication Technologies (February 2023)
- Paper Presentation on "**Breast Cancer: Automatic detection from mammogram images by utilizing deep learning methods**", International Conference on Sustainable Technology (January 2023)
- Paper Presentation on Internship Project "**Video Generation by Summarizing the Generated Transcript**" in 2023 3rd Asian Conference on Innovation in Technology (ASIANCON) August 2023.

Skills & Abilities

- Machine Learning
- Generative AI

- Python
- Deep Learning
- Generative AI

- MongoDB
- SQL
- Agentic AI

Volunteer

Internship at Ladli Foundation (July 2021 — August 2021)

Activities and Interests

Enjoying music, Traveling, Walking, or Sitting Alone in Peace without Any Noise