

Piyush Sayaji Torawane

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Education

Vellore Institute Of Technology,

July 2022 – July 2026

B.Tech. in Computer Science with specialization in AI & ML

- CGPA: 8.19/10

Skills

Languages: Python, SQL

Data Handling: NumPy, Pandas

Concepts: REST APIs, Data Analysis, Machine Learning (application level)

Projects

SEBI Safe Space – Financial Security & Compliance Platform

Tech Stack: Python, Streamlit, Machine Learning, REST APIs

- Conceptualized and developed an end-to-end SEBI-focused compliance platform for advisor verification and financial record validation.
- Designed and implemented Flask-based REST APIs to handle data ingestion, rule validation, alert generation, and system workflows.
- Integrated machine learning outputs to identify potentially non-compliant financial patterns and support decision-making at the application level.
- Built a Streamlit dashboard and MongoDB data layer to store records and display real-time verification status and alerts.

Panoptic Image Segmentation using Deep Learning (Group Project)

Tech Stack: Python, PyTorch, Computer Vision

- Worked in a team to develop a panoptic image segmentation pipeline using a pre-trained Mask R-CNN model.
- My responsibility included implementing data preprocessing scripts and integrating the PyTorch-based inference workflow.
- Assisted in evaluating segmentation outputs using IoU and visual validation to assess model performance.
- Collaborated on testing and result analysis to ensure correct mask generation and output consistency.

Solar Panel Efficiency Analysis

Tech Stack: Python, Pandas, Scikit-learn

- Developed a Python-based data analysis project to study factors affecting solar panel efficiency using historical datasets.
- Performed data cleaning, feature selection, and exploratory analysis to understand relationships between environmental parameters and efficiency output.
- Implemented a basic regression model to estimate efficiency trends and validate results on test data.
- Focused on data preprocessing, result interpretation, and visualization rather than advanced model optimization.

Certifications

- Oracle Cloud Infrastructure Generative AI - Oracle
- Oracle AI Vector Search - Oracle

Achievements

IIM Ahmedabad CaseStudy Challenge 2024: Ranked Top 15 teams globally in a 36-hour innovation case study challenge.

SEBI FINANCE HACKATHON Finalist

Co-curricular

Club Coordinator,

Fintech club

- Coordinated club activities by managing schedules, communication, and task assignments among members.
- Supported organization of events and discussions while coordinating with faculty and student teams.