

# Piyush Sayaji Torawane

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## Education

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**VIT Bhopal University**, B.Tech. in Computer Science with specialization in AI & ML

July 2022 – July 2026

- CGPA: 8.19/10

## Projects

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### Panoptic Image Segmentation using Deep Learning

- Implemented a panoptic segmentation model combining semantic and instance segmentation using Mask RCNN/ Detectron2.
- Trained the model on COCO dataset, achieving accurate object and background differentiation.

### Solar Panel Efficiency Prediction

- Trained and optimized Random Forest and XGBoost models on environmental data; achieved high accuracy in solar output prediction.
- Used AWS for model hosting and parallel processing of large feature sets.

### HealthCare System

- Developed Flask/Node.js backend for real-time disease prediction using symptom inputs; latency <10ms.
- Integrated MongoDB and ML model achieving 95% accuracy across test inputs.

### SEBI Safe Space - Financial Security Compliance Platform

- Built 4-module SEBI compliance system with AI fraud detection, deepfake analysis, and advisor verification; processed 1,000+ records with 85%+ accuracy.
- Developed Python/Flask APIs and Streamlit frontend with microservices for real-time monitoring and automated data processing.
- Engineered fraud prevention system evaluating 30+ risk indicators with <2s response time and 99% uptime across 6 concurrent services.

## Technologies

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**Languages:** Python, SQL, Node.js, Java

**Framework/Tools:** Flask, PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, Streamlit

**Database System/Data Tools:** MySQL, MongoDB, Power BI, Tableau, Excel

## Leadership Experience

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**Club Coordinator**, Fintech club

- Streamlined pipeline management processes through automation tools, reducing processing time by 35% and ensuring timely updates on 95% of scheduled financial review
- Managed the launch of new booking system to improve organisation

## Achievements

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**AwsxZelestra:** Secured AIR-63, beating 200,000+ participants from over 3,500 institutions.

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

## Certifications

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