

Narendra Saraf

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Education

Vishwakarma Institute of Information Technology (VIIT), Pune

CGPA: **8.42**

BTech in Computer Science and Engineering (AI & ML)

Aug 2023 - Jun 2027

Experience

AICTE: (Course Internships)

Apr 2024 - Dec 2024

- EduSkills Foundation: Palo Alto Cybersecurity Intern**

Completed virtual internship focused on network security, threat detection, and firewall management using Palo Alto technologies. Gained hands-on experience with cyber defence labs and real-world attack simulations. Earned Cybersecurity Foundation certification from Palo Alto Networks.

Club Activities

- Gandharva (2024) - Finance Team**

Worked as a Finance Team Member, managing event budgets, tracking expenses, and coordinating with sponsors and organizing committees to ensure smooth financial operations during the fest.

- Entrepreneurship Development Cell (2023-2024) - Finance & Operations Team**

Worked as a Finance and Operations Team Member, contributing to the successful organization of Corpstrata'24 and Vishwapreneur'24 by managing budgets, handling logistics, and coordinating event operations efficiently.

Projects

Eventify | React.js, Node.js, MongoDB, Express.js, Zoom SDK, Discord Webhook

- Built a full-stack event management platform with event creation, scheduling tracking and other core features.
- Developed a responsive React.js front-end and optimized MongoDB schema for efficient data management.
- Integrated Zoom SDK for real-time virtual events and Discord Webhook API for instant notifications and updates.

Hospital Management System | Vue.js, PostgreSQL, Jinja, Flask

- Built a full-stack hospital management system using Flask APIs and PostgreSQL for secure medical data.
- Designed a responsive Vue.js + Jinja interface for patient, appointment, and staff workflows.
- Implemented role-based access and structured data models to streamline hospital operations.

IPO-Success-Scoreboard | XGBoost, LightGBM, Pandas, NumPy, Plotly, Scikit-Learn

- Optimized XGBoost/LightGBM pipeline for IPO-success prediction using imbalance-aware training.
- Engineered features from public filings, market sentiment, and multi-year pricing data.
- Built an end-to-end data pipeline for ingestion, cleaning, training, and model persistence.
- Designed a Scoreboard dashboard visualizing risk, probabilities, and feature importance.
- Achieved 79% accuracy on historical IPO performance data.

Causal-Analysis-Bias-Mitigation-of-LLMs | PyTorch, Hugging Face Transformers, DoWhy & Counterfactual Analysis

- Conducted state-of-the-art causal abstraction analysis to audit and interpret LLM bias behaviors.
- Performed layer-wise causal probing to locate internal representations encoding sensitive attributes.
- Generated counterfactual scenarios to stress-test robustness against controlled perturbations.
- Implemented a causal-analysis pipeline using PyTorch, Hugging Face, and DoWhy for probing and interventions.
- Curated a domain-specific dataset to evaluate bias propagation across engineering queries.
- Designed a mitigation workflow that reduced measurable bias without degrading accuracy.

Technical Skills

Web Technologies: HTML, CSS, Bootstrap, Jinja, REST API

Databases: MySQL, MongoDB, PostgreSQL, SQLite

Frameworks: Vue.js, Node.js, React.js, Express.js

Visualization & UI/UX Tools: Power BI, Figma

Microsoft Office: MS Word, MS Excel, MS PowerPoint

Machine Learning: Mathematics, Statistics, Scikit-Learn, XGBoost, LightGBM, PyTorch, Hugging Face Transformers, DoWhy, Deep Learning, LLM Fine-Tuning, Counterfactual Analysis, Causal Inference, Bias Mitigation, Data Pipelines

Languages: Java, Python, JavaScript

Cloud Computing: AWS, GCP

Developer Tools: Git, GitHub, Postman API

Concepts: Object-Oriented Programming, DSA

Certifications

OCI AI Vector Search Professional Certificate

OCI Gen AI Professional Certificate

OCI Data Science Professional

OCI AI Foundation Associate