

Kunal Mishra

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EDUCATION

Vellore Institute of Technology

Int. M.Tech CSE (Computational & Data Science); Cumulative GPA: 9.29/10.0

Bhopal, India

Jun 2021 – May 2026

Reliance Foundation School

Maharashtra State Board (Class XII); Aggregate: 94.0%

Panvel, India

Jun 2020 – May 2021

Holy Angels School

Maharashtra State Board (Class X); Aggregate: 84.0%

Panvel, India

Jun 2018 – May 2019

TECHNICAL SKILLS

- Java, Python, Machine Learning, Power BI, Tableau, MySQL

CERTIFICATIONS

- Oracle AI Vector Search Professional, Oracle Apr 2025
- Machine Learning Rock Star - the End-to-End Practice, Coursera May 2023
- Applied Machine Learning in Python, Coursera Dec 2022

PROJECTS

Kidney Disease Classification using MLflow & DVC

Mar 2025

- Orchestrated full reproducibility across 50+ runs by establishing a DVC-driven pipeline for data and model versioning, slashing experiment tracking time by 60% through the integration of MLflow for automated tracking and model registry.
- Safeguarded zero-downtime production uptime by containerizing the application with Docker and streamlining deployments through GitHub Actions CI/CD to AWS EC2.

Sales Forecasting Using Time Series Analysis

Dec 2024

- Developed a Python-based forecasting pipeline utilizing ARIMA and 30-day SMA models on AAPL stock data, achieving a 25% improvement in prediction accuracy over baseline models.
- Designed interactive Streamlit dashboards with Plotly visualizations for trend and seasonality analysis, leading to a 50% reduction in stakeholder report turnaround time.

Sensor Fault Detection

Dec 2023

- Automated fault detection on sensor data from over 100 wafers using Python and Scikit-Learn, resulting in a 40% reduction in manual inspections and a 30% decrease in processing time through a Flask-based API for real-time predictions.
- Enhanced data integrity by implementing MongoDB storage and Python ingestion pipelines, ensuring high accuracy and consistency as verified by audit checks.

SCHOLASTIC ACHIEVEMENTS

- Co-authored a research study applying machine learning to optimize soil compressive strength; developed predictive models addressing material cost estimation, structural reliability, and geotechnical risk, accepted at ICCIS 2024 and Springer LNNS.
- Garnered a global rank of 197,761 on LeetCode and an institutional rank of 115 on GeeksforGeeks, showcasing strong analytical abilities.

HOBBIES & INTERESTS

- Exploring diverse cultures and environments through travel, enhancing adaptability and global awareness.
- Engaging with scientific and technological documentaries to broaden understanding of real-world applications.
- Practicing photography to develop attention to detail and creative perspective.