

Kshitij Lalte

AI/ML Enthusiast

[✉ work.kshitij.lalte@gmail.com](mailto:work.kshitij.lalte@gmail.com) [📞 +91 8766012225](tel:+918766012225) [📍 Pune, India](#) [🔗 github.com](#) [🔗 linkedin.com](#)

Professional Summary

Motivated AI/ML enthusiast with hands-on experience in developing intelligent systems, ML pipelines, and AI models for computer vision, predictive analytics, and data-driven applications. Proficient in Python, data preprocessing, model development, and deployment, with a strong foundation in algorithms, data structures, and problem-solving.

Work Experience

Data Science & Analytics Intern — Proxenix | Virtual Internship

06/2025 – 07/2025

- Applied deep learning concepts and neural network fundamentals in hands-on project work.
- Worked with the MINS dataset, performing data manipulation, encoding, and decoding tasks.
- Gained hands-on experience in data preprocessing and understanding deep learning workflows.
- Developed practical knowledge of model operations and dataset handling.

MERN Stack Developer — EY GDS

04/2025 – 06/2025

- Built a full-stack MERN application with user authentication, recipe management, and a responsive UI using React.js, Node.js, MongoDB, and Tailwind CSS.
- Implemented features including user authentication, recipe creation/editing, and responsive UI design.
- Gained hands-on experience in full-stack development, REST API integration, and MongoDB data modeling.

Front-End Developer — Devine Tech

01/2025 – 02/2025

- Developed and integrated backend services for a web application to enhance functionality.
- Collaborated with designers and backend developers to implement responsive and dynamic web applications.
- Wrote clean, maintainable code focusing on component reusability, performance, and cross-browser compatibility.
- Participated in code reviews, agile ceremonies, and version control using Git to uphold development best practices.

Projects

Real-Time Weather ETL

- Developed a real-time ETL pipeline to extract weather data from the OpenWeather API, transform raw JSON, and load cleaned records into a SQLite database.
- Built a live Streamlit dashboard to display temperature, humidity, and wind-speed trends using the latest time-series data.
- Integrated a unified runner enabling smooth startup and graceful shutdown of both the ETL process and the dashboard.

Tech Stack: Python, OpenWeather API, SQLite, Streamlit, Pandas, dotenv

License Plate Detection

- Prepared and augmented a license plate dataset using RoboFLow to enhance model accuracy and generalization.
- Trained a YOLOv10 model on Google Colab to detect vehicle license plates from images and video frames.
- Achieved Precision: 0.99, Recall: 0.96, mAP50: 0.979, mAP50-95: 0.728, demonstrating robust detection under strict IoU thresholds.
- Explored real-time object detection techniques to understand practical AI/ML applications.

Tech Stack: Python, YOLOv10, Roboflow, Google Colab (for training)

Customer Segmentation Using K-Means Clustering

- Implemented K-Means clustering to group customers based on purchasing behavior and demographic features.
- Performed data preprocessing, exploratory data analysis (EDA), and visualizations to uncover patterns in the dataset.
- Identified distinct customer segments to simulate insights for potential marketing strategies.

Tech Stack: Python, Pandas, Seaborn, Matplotlib, scikit-learn

Technical Skills

Programming & Libraries

Python, Pandas, Scikit-learn, TensorFlow, Streamlit, dotenv

Data Visualization & Preprocessing

Matplotlib, Seaborn, Data Preprocessing

Computer Vision

OpenCV, Image Processing, Object Detection

Software & CS Fundamentals

Data Structures and Algorithms, React, Node.js, MongoDB, SQL

Soft Skills

- Problem-solving
- Time management
- Adaptability
- Collaboration

Education

Bachelors of Engineering, Computer Engineering, Trinity College Of Engineering and Research

11/2022 – 07/2026
Pune, Maharashtra

Minor in CSE & Advanced Technologies, IIT Mandi

08/2024 – 07/2025

Certificates

• OpenCV BootCamp - OpenCV University

• Zensar Employability Skills Development Program - Zensar

• Data Science and Analytics - Proxenix

• Career Talks Participation — Masaiverse & Vendavo