

# Kshitij Lalge

## AI/ML Enthusiast

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### 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 🔗