

DIKSHA WAGH

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ABOUT ME

Passionate AI and Data Science undergraduate skilled in Python, ML, and scalable systems. Interested in building intelligent, data-driven applications that enhance user experiences at scale.

EDUCATION

K.K Wagh Institute of Engineering Education and Research

B.TECH Artificial Intelligence and data science 2022 - 2026

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Machine Learning, Deep Learning, Artificial Intelligence, and Software Engineering.

WORK EXPERIENCE

AI Intern – CodSoft (2024)

- Developed AI and computer vision systems (chatbots, YOLOv8).
- Configured environments and managed dependencies.
- Troubleshot software/hardware issues and collaborated with teams.

Mobile App Development Intern – Excalate (2025)

- Built and optimized Android apps using Firebase for authentication and data storage.
- Enhanced UI/UX performance and integrated push notifications.
- Collaborated in agile sprints to deliver production-ready mobile features.

PROJECTS AND RESEARCH

Scalable Video Recommendation Engine

- Designed a microservices-based recommendation system using FastAPI, Redis caching, and MongoDB.
- Implemented a collaborative filtering model for personalized content suggestions.
- Deployed on Docker & Kubernetes for horizontal scalability.

Distributed Log Analysis Platform

- Built a distributed system for analyzing large-scale server logs using Apache Kafka and Spark Streaming.
- Achieved 10x faster query times through optimized data partitioning.

eduAutoML – Open Source AutoML Library

- Developed an AutoML Python package that auto-detects task type (classification/regression) and preprocesses data.
- Integrated a Gradio GUI for easy model testing and visualization.

AI-Powered Driver Drowsiness & Distraction Detection

- Implemented real-time face and eye monitoring using OpenCV, Dlib, and MobileNet.
- Triggered live alerts via sound and vibration when driver fatigue patterns were detected

SKILLS

- **Languages:** Python, C++, JavaScript, SQL
- **Frameworks & Libraries:** TensorFlow, PyTorch, OpenCV, Scikit-Learn, React, Node.js
- **Tools & Platforms:** Docker, Kubernetes, Git, GitHub, Jupyter, Power BI
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS, Google Cloud, REST APIs
- **Areas of Expertise:** Machine Learning, Deep Learning, Computer Vision, Data Analysis, Software Development

Certifications & Courses

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Oracle Fusion AI Agent Studio Certified Foundations Associate - Rel 1
- Supervised Machine Learning: Regression and Classification(2024)
- Natural Language Processing (NLP) Specialization (2025)
- Unsupervised Learning, Recommenders, Reinforcement Learning (2025)