

DIKSHA WAGH

 <https://github.com/Diksha-3905>

 +91 9561563905 |  waghdiksha935@gmail.com |  www.linkedin.com/in/diksha-wagh-5b52a62ab

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.
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WORK EXPERIENCE

AI Intern – CodSoft (2024)

- Developed AI and computer vision systems (chatbots, YOLOv8).
- Configured environments and managed dependencies.
- Troubleshoot 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.
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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
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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
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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)
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