# DWARAKESH S

ASPIRING AI/ML ENGINEER

## CONTACT


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## PROFILE SUMMARY


Driven and detail-oriented AI/ML Engineer with hands-on experience in developing and fine-tuning machine learning and deep learning models, including applications in NLP and computer vision. Gained practical, real-world skills through internships focused on impactful AI solutions. Passionate about solving complex problems and continuously expanding technical expertise. Quick learner with strong analytical thinking and adaptability. Proficient in Python, PyTorch, Hugging Face, and OpenCV, with a focus on building efficient, scalable AI systems.


## EDUCATION

2023 - 2025

DG VAISHNAV COLLEGE

- Master Of Computer Application
- CGPA: 8.6/10.0

2020 - 2023

GURU NANAK COLLEGE

- Bachelor of Sciene Information Tech
- GPA: 8.7 / 10.0

## SKILLS

- Programming: Python, SQL
- Machine Learning: Scikit-Learn (regression, classification, clustering)
- Deep Learning: Neural Networks, SLMs, LLMs, PyTorch, , OpenCV, YOLO (Object Detection)
- Generative AI: Text generation, vision-language models
- Data Visualization: Power BI, Matplotlib

## ACHIEVEMENTS

- Research Publication: House Price Prediction Using Regression Model, UGC journal Fuzzy Systems and Soft Computing, Vol. 19, Issue 02.
- Data Science Competitions [Kaggle Link]: Participated in 5+ Kaggle competitions, enhancing model performance and predictive accuracy in real-world datasets.

## WORK EXPERIENCE

### KritiLabs Technologies — MAY 2025 - PRESENT

**AI/ML Engineer Intern**

- As an AI/ML Intern at KritiLabs, I developed computer vision solutions using OpenCV, including noise removal and morphological filtering. I worked on AI-based image upscaling to enhance low-resolution images using deep learning. I trained custom YOLOv8 models for object detection with real-time inference.
- Currently, I'm building an abandoned object detection system that combines background subtraction, motion tracking, and YOLO-based object classification. The system intelligently filters out 'person' class to detect unattended items in video streams.

### D-Aces India (Data Aces) — DEC 2024 - MAY 2025

**AI/ML Engineer Intern**

- Building a Small Language Model (SLM) using Python with Hugging Face and Ollama, focusing on lightweight, efficient architecture for local and offline deployment.
- Working on a "AI Blind Navigation Using SLM" project, implementing and fine-tuning models to improve text generation quality and overall performance.

## PROJECTS

### Real-Time Hotel Cleanliness & Unattended Item Detection

- Built an intelligent video analytics system that monitors poolside areas to detect objects (e.g., towels) left unattended for over a preset duration.
- Combined foreground masking, and YOLOv8 classification to ignore human presence and trigger alerts only when non-person objects remain static for 2–3 minutes.Built as an early-stage solution for potential integration into client-facing maintenance automation solutions.

### AI Blind navigation Using SLM model — [GITHUB LINK]

- Built an AI-powered blind navigation Simulation using YOLO, OpenCV, and SLM for real-time object detection and voice-guided assistance. It enhances mobility by providing accurate, spoken navigation cues based on visual input.

### Banking Campaign Analysis — [GITHUB LINK]

- Analyzed banking data to assess campaign effectiveness and customer response trends. Built a high-accuracy ensemble model in Python to improve marketing strategies and targeting