Omkar Tilekar

otilekar999@gmail.com | (+91) 8767412313

github.com/Rakmo5

www.linkedin.com/in/OmkarTilekar

PROFILE

AI & Data Science undergraduate with hands-on experience building and deploying CNN-based image classification models using TensorFlow and Python. Seeking ML/AI internships focused on real-world problem solving and rapid learning.

SKILLS

- ❖ **Programming:** Python, C++
- ❖ **ML/AI:** CNNs, Transfer Learning, Model Training & Evaluation
- ❖ **Frameworks:** TensorFlow, TensorBoard, Streamlit
- ❖ **Data:** NumPy, Pandas, Matplotlib, ScikitLearn
- ❖ **Web / Full Stack:** React, Vite, HTML, CSS, JavaScript, FastAPI, REST APIs, Node.js, Express, EJS

EDUCATION

- ❖ **B.E. in Artificial Intelligence & Data Science**
  Ajeenkya DY Patil School of Engineering, Charoli – 412105
  Expected Graduation: 2027 | **Current SGPA:** 9.3 (avg)

- ❖ XII (HSC) - *Mahatma Gandhi Vidyalay, Rajgurunagar 410515, Pune*   *85.50%| 2023*

ACADEMIC PROJECTS

- ❖ **Osteo-Arthritis severity prediction using Machine Learning**
  Jan 2025 – Mar 2025 | Python, Pandas, NumPy, Matplotlib, TensorFlow, Streamlit
- • Built a CNN model to classify knee osteoarthritis severity from X-ray images with data augmentation.
- • Deployed the model using Streamlit for real-time image-based prediction and analysis.

- ❖ **Dog Breed Identification using CNN & MobileNetV2**
  Nov 2024 – Dec 2024 | Python, TensorFlow, Streamlit, Tensorboard, NumPy, Matplotlib
- • Adapted MobileNetV2 with transfer learning to classify dog breeds using Kaggle's dog breed identification dataset.
- • Built and deployed a Streamlit app with drag-and-drop image upload for real-time breed prediction.

- ❖ **Kolam Extractor & Generator (Smart India Hackathon)**
  Aug 2025 – Nov 2025 | React, Vite, FastAPI, OpenCV, NumPy, REST APIs
- • Built a full-stack AI system with React + Vite frontend and FastAPI backend to analyze Kolam (geometric art) images using computer vision.
- • Implemented CV pipelines to extract structural rules (dot count, grid type, strokes, symmetry) and exposed them via REST APIs to an interactive web UI.

CERTIFICATES

- ❖ Best UI Impact Award – Design Sprint 2K25, Ajeenkya DY Patil School of Engineering (2025)
- ❖ Complete AI, ML & DS Bootcamp – Udemy
- ❖ Machine Learning -Elite – NPTEL
- ❖ Programming in Modern C++ – NPTEL
- ❖ Agile Scrum Certification – Infosys

INTERESTS

- ● Modern Applied Psychology — human behavior, teamwork, and communication.