

SIDDHANT PATIL

+91 8767594017

siddhantpatil1543@gmail.com

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EXPERIENCE

IndoAI Technologies Private Limited Machine Learning & AI Intern | Onsite Work

June 2024 - Present
Pune, India

- Designed autonomous ML systems to automate predictive models, with integrated Power BI dashboards for actionable insights.
- Built a YOLOv8 fire & smoke detector (92.6% mAP) trained on 6,391 images across 200 epochs for real-time hazard monitoring.
- Leveraged DeepStack to train a custom vehicle & person detector on 10,000+ images (98% accuracy), deploying to edge devices (Raspberry Pi, Jetson Nano) via ARM64, OpenCV, and TensorFlow Lite.
- Developed facial-detection for attendance tracking, processing 87 unique faces in real time.

CoDE Club PESMcoe

Co Technical Head | Full-Time

Oct 2023 - Oct 2024
Pune, India

- Utilized popular Python libraries such as NumPy, Pandas, OpenCV, TensorFlow, and Scikit-learn to drive hands-on sessions, motivating 60+ students to explore AI, ML, and data science.
- Overseeing and managing club activities related to technology and development, leading to a 120% growth in technical support engagement during my tenure.
- Coordinating team efforts to ensure smooth execution of tech projects.

Rotary (Rotaract Club Of Pune Metro) | Full-Time

Aug 2023 - Nov 2024
Pune, India

- Engaged in social service through Rotary, supporting community development and meaningful causes.
- Led donation drives, distributing 1,000+ sanitary pad packets to girls in government schools.

SKILLS

- Programming Languages: C, C++, Python, SQL
- Machine Learning: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, XGBoost
- Deep Learning & Computer Vision: YOLO (v8), OpenCV, TensorFlow, PyTorch, Roboflow, Data Tools: Power BI, Excel, AI
- Leadership: Event organizer, hackathon judge, team coordination & presentation.

EDUCATION

- Savitribai Phule Pune University:**
Bachelor of Engineering In Artificial Intelligence & Data Science | 2022-2026

PROJECTS

Care Vault : Women & Child Safety AI

[Github](#)

[Demo](#)

- Hand gesture emergency alert system** using OpenCV achieves 93% accuracy on a 5-class, 1440-sample dataset (precision: 83–100%, recall: 86–98%, F1-score: 90–97%) for accessible digital interface control.
- Missing person identification** with real-time facial recognition system using Python, OpenCV, and face_recognition; processes every 2nd frame, applies 0.6 threshold, draws boxes, encodes to JPEG, sends multi-threaded email alerts.
- Violence detection** using real-time YOLOv11s-pose and XGBoost, processing every 3rd frame with >0.55 confidence to trigger instant emergency alerts for high-risk incidents.
- Incident severity prediction** using TF-IDF and ML, trained on 10K+ Indian crime reports to prioritize emergency responses.

[Github](#)

[Demo](#)

Smart Harvest AI :

- Plant Disease Detection:** Uses CNNs to detect plant diseases from leaf images. The dataset includes ~87,000 images of healthy and diseased leaves across 38 classes.
- Crop Recommendation:** Applies Random Forest to analyze soil NPK values, weather, and crop types to suggest suitable crops. AgriSense uses SVM for crop prediction with 90.01% accuracy.
- Fertilizer Prediction:** Uses SVM to recommend fertilizers based on soil health and crop requirements. AgriSense demonstrates this with soil and crop data.
- Farm Loan Prediction:** Uses Gradient Boosting to assess loan eligibility based on land location, yield estimates, and market trends.

ACHIEVEMENTS

- Magnitude1.0 National Hackathon Winner (Team Leader)
- Smart India Hackathon National Level Finalist - Top 6 amongst 500+ teams.
- BOROSA – BOSCH Road Safety Hackathon 2025 Finalist - Top 18 amongst 320+ teams
- Judge & Core Organizer for IndoVate Sprint 2025 Hackathon at MKSSS Cummins College of Engineering for Women
- Black Rock Hackathon Finalist - Top 9 amongst 55 other teams.
- 2x ProStart PreSIH Winner - Software Category & overall 7x Hackathons Finalist