

ATHARVA KANAWADE

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[LinkedIn](#) | [GitHub](#) | [Blogger.com](#) | [CTF Writeup](#)

SUMMARY

Absolute learner with a strong foundation in **Python**, **data handling**, and **model building**, proven through impactful ML projects. Skilled in turning raw data into deployable AI solutions using modern tools and frameworks. Passionate about **solving real-world challenges** in machine learning and AI.

EDUCATION

Marathwada Mitra Mandal's College of Engineering, Pune. Bachelor of Engineering in Electronics and Telecommunication (CGPA: 9.02)	Nov 2022 - Jun 2026
Shramik Junior College, Sangamner. Higher Secondary Certificate (66.17 %)	Sep 2020 - Jun 2022
Dr. B.G. Dere English Medium School, Sangamner. Secondary School Certificate (87.80 %)	Jun 2007 - Jun 2020

EXPERIENCE

R&D Intern - Encrypta Inc.	Dec 2024 - Mar 2025
• Engineered a secure desktop authenticator using Python , Node.js and Electron.js strengthening local authentication.	
• Integrated HTTPS and WebSocket protocols to enable encrypted real-time data transmission with zero data leaks in testing.	
• Implemented multi-factor authentication and secure coding practices, boosting login security by 70% and reducing attack vectors.	

PROJECTS

ARTEMIS (Advance Reactive Threat Elimination and Monitoring Integrated System) [GitHub]	Jun 2025
• Built a Naive Bayes model for phishing email detection with 90%+ accuracy .	
• Used Flask to set up real-time checks and trigger instant email alerts when a phishing email was caught.	
• Deployed the system on AWS EC2 so it could run live and handle incoming traffic.	
Tech Stack: Python, scikit-learn, Flask, AWS, EC2, SMTP	
Harvest-Health – Crop Monitoring Rover [GitHub]	Mar 2025
• Designed a CNN model to detect potato leaf health with 90%+ accuracy despite a small dataset.	
• Built a rover with sensors and a camera to collect field data and send it to the ThingSpeak cloud .	
• Integrated Twilio to deliver updates directly to farmers' phones, making ML a key part of the system.	
Tech Stack: Python, TensorFlow/Keras, OpenCV, ThingSpeak, Twilio, Embedded Systems	
Automotive Part Quality Classifier (Confidential Client)	Jun 2025
• Created a part inspection model using MobileNetV2 with transfer learning to classify parts as OK or NOT-OK.	
• Achieved reliable detection across multiple part variants and production conditions.	
• Packaged the workflow into a simple .exe application for in-house use on the factory floor.	
Tech Stack: Python, TensorFlow/Keras, MobileNetV2, PyInstaller, OpenCV	

SKILLS

- **Programming & Scripting:** Python, NumPy, Pandas, scikit-learn, TensorFlow, Keras, OpenCV
- **Machine Learning & Models:** Naive Bayes, CNNs, Random Forest, XGBoost, Transfer Learning (MobileNetV2, YOLOv5/YOLOv8)
- **Cloud & Deployment:** AWS EC2, ThingSpeak, Flask, PyInstaller, Docker (basic)
- **Data Handling & Tools:** MySQL, Jupyter Notebook, Git, Linux
- **Other Tech for ML Solutions:** Embedded Systems (ESP32, sensors), Twilio API

ACHIEVEMENTS

- **Winner** in Capture the Flag (CTF) at NigVanta'25
- **Winners** at Innovators Challenge 2k24: 24 Hour Hackathon