

# 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

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

## EXPERIENCE

<b>R&amp;D Intern - Encrypta Inc.</b>	Dec 2024 - Mar 2025
<ul style="list-style-type: none"><li>Engineered a secure desktop authenticator using <b>Python</b>, <b>Node.js</b> and <b>Electron.js</b> strengthening local authentication.</li><li>Integrated <b>HTTPS</b> and WebSocket protocols to enable encrypted real-time data transmission with zero data leaks in testing.</li><li>Implemented multi-factor authentication and secure coding practices, boosting login security by <b>70%</b> and reducing attack vectors.</li></ul>	

## PROJECTS

<b>ARTEMIS</b> (Advance Reactive Threat Elimination and Monitoring Integrated System) [ <a href="#">GitHub</a> ]	Jun 2025
<ul style="list-style-type: none"><li>Built a <b>Naive Bayes model</b> for phishing email detection with <b>90%+ accuracy</b>.</li><li>Used <b>Flask</b> to set up real-time checks and trigger <b>instant email alerts</b> when a phishing email was caught.</li><li>Deployed the system on <b>AWS EC2</b> so it could run live and handle incoming traffic.</li></ul> <b>Tech Stack:</b> Python, scikit-learn, Flask, AWS, EC2, SMTP	
<b>Harvest-Health – Crop Monitoring Rover</b> [ <a href="#">GitHub</a> ]	Mar 2025
<ul style="list-style-type: none"><li>Designed a <b>CNN model</b> to detect potato leaf health with <b>90%+ accuracy</b> despite a small dataset.</li><li>Built a rover with sensors and a camera to collect field data and send it to the <b>ThingSpeak cloud</b>.</li><li>Integrated <b>Twilio</b> to deliver updates directly to farmers' phones, making ML a key part of the system.</li></ul> <b>Tech Stack:</b> Python, TensorFlow/Keras, OpenCV, ThingSpeak, Twilio, Embedded Systems	
<b>Automotive Part Quality Classifier (Confidential Client)</b>	Jun 2025
<ul style="list-style-type: none"><li>Created a part inspection model using <b>MobileNetV2</b> with <b>transfer learning</b> to classify parts as OK or NOT-OK.</li><li>Achieved <b>reliable detection</b> across <b>multiple part variants</b> and production conditions.</li><li>Packaged the workflow into a simple <b>.exe application</b> for in-house use on the factory floor.</li></ul> <b>Tech Stack:</b> 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