

# ATANDA ABDULLAHI ADEWALE

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## PROFILE

A computer vision research engineer skilled in real-time object detection and ML frameworks. Writes object-oriented and modular Python for scalable project development. He led a waste sorting initiative, enhancing detection accuracy by 20% with a custom SAM encoder-based Vision Transformer. Passionate about integrating AI with robotics for complex, real-world challenges.

Sex: Male

Born: 20-11-1990

Nigerian

## EXPERIENCE

**ML Research Engineer, WASORIA Le Creusot 71200, France** **2024**

- Research and present innovative detection transformer architectures to improve real-time object detection's speed and accuracy
- Optimize models for edge devices through refinement and compression
- Create and augment datasets to enhance accuracy and performance

**Information Technology Officer** **2015**

**Federal Radio Corporation of Nigeria (FRCN) Ikoyi, Lagos operations**

- <https://radionigerialagos.gov.ng> website development and management
- Manage live audio/video streaming of live on-air studios on social media
- Advert tracking system, technical support and network offices

**Consumer Insight Researcher, Cadbury Nigeria Plc, Ikeja, Lagos** **2011**

- Monthly regional market analysis using Nielsen Global FMCG database
- Coordinate Qualitative/Quantitative Research Projects accross Nigeria
- Marketing Support Functions – Statistical Analysis and Research

## EDUCATION

**Masters of Science M2 in Computer Vision and Robotics** **2023**

Université de Bourgogne, Le Creusot, France

**Postgraduate Diploma in Computer Science** **2015**

University of Lagos, Lagos, Nigeria

## KEY SKILLS

**Instance segmentation, Object Detection and Tracking, Pose Estimation:**

PyTorch, Keras, MMDetection3, Detectron2, Diffusers, RoboFlow SuperVision

HOG, SVM, CNNs, RNNs, AEs, VAEs and GANs, Transformers, GloVe model and LLaMA

**Image Processing, Camera Calibration, Visual Servo, Medical Imaging:**

OpenCV, Scikit-image, ROS, Robotics-toolbox RTB, Python, Unix Shell Scripting, PyDicom, MONAI.

**Web Development:**

JavaScript (Es7), React, Next Js, Tailwind, Firebase, GSAP, WordPress, Git, Docker.

**Tools:**

Conda, Google Colab, Jupyter Notebook, Adobe CC (Photoshop, Illustrator, After-effect), Figma, Cinema4D, Microsoft Office, Linux, Mac and Windows

**PROJECTS****Real-Time Pedestrian Detection in Traffic Surveillance**

- Achieved high accuracy using YOLOv5 in identifying pedestrians in multi-scenes, leveraging a small INRIA Person Dataset
- Involved in real-time analysis of video footage from surveillance cameras

**Precise Facial Expression Recognition:**

- Achieved 87.5% accuracy in recognizing 7 distinct facial expressions.
- Success attributed to advanced transfer learning techniques, including feature extraction from a pre-trained VGG-19 model, followed by fine-tuning on the AffectNet dataset.

**ATTRIBUTES**

- Effective Collaboration, Well-travelled with good interpersonal relations/communication skills
- Excellent data management and multi-tasking ability
- Writes modular object-oriented Python and JavaScript
- Expert in Microsoft Excel and SPSS (Report & Analysis)
- Committed to cutting-edge research and innovation in computer vision.

**LANGUAGES**

English (Native)      French (B1 Level)

**INTERESTS**

AI, VR/AR and Traveling

**REFERENCES**

Available on request.