



Armand Florent TSAFACK PIUGIE
CIFRE Ph.D Student in Computer Science, ML/DL Learning
University of Caen Normandy

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GitHub Profile
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EDUCATION

- **University of Caen Normandy** 2024-2027
Doctor of Philosophy in Computer Science - Cybersecurity Domain Ph.D student
- **University of Dschang** 2020-2021
Master of Science in Electronics Electrical & Automatic CGPA/Percentage: 14.30
- **University of Dschang** 2019-2020
Master I in Electronics Electrical & Automatic CGPA/Percentage: 13.58
- **University of Dschang** 2016-2019
Bachelor's Degree in Science and Technology domain CGPA/Percentage: 12.02

EXPERIENCE

- **TEICEE** 2024-2027
CIFRE Ph.D Student Company
 - Fighting against Phishing Email Attacks using NLP and Artificial Intelligence
 - Network and Security Pole
- **ENSICAEN** 2024-2025
Teaching assistant CAEN
 - Data Analysis and Data Mining Teaching Assistant for Second-Year Computer Science Students
- **ENSICAEN** June 2024
Cyber in Normandy Summer School where I Worked on Email Forensics project proposed by téicée company CAEN
 - Email Database Description
 - Email content (size, sentiment analysis, spam detection, explicit content detection, geolocation, URL Link...)
 - personal user behavior (work period, intensity, ...)
 - Relationships between users (relational graph, professional/personal interaction...)
- **Agrix Technology** February 2023- March 2023
Machine Learning Engineer Yaoundé
 - Make a court summary report of Andrew Ng of Stanford University and define a methodological framework for the development of a mobile application for the detection and automatic recognition of pathologies (Coccidiosis, Salmonella, Newcastle disease, etc.) in a chicken farm based on poop analysis;
 - Exploitation of the GoogleColab environment (with GPUs) for training a computer vision model for the detection and automatic recognition of pathology in a chicken farm based on the analysis of chicken poops.
- **University of Dschang** 2022-2023
I have been teaching Artificial Neural Networks course to Master II students in physics option EEA Dschang
 - Lecture on Artificial Neural Networks in person;
 - Exhibition on the different themes that were given to the students;
 - Supervision of Master 2 Research projects;
 - On November 26, 2020, at amphy 1000 of the University of Dschang, I took part in a conference that focused on Artificial Intelligence and Digital Economy for the development of Africa.
- **Collège Evangélique Bilingue de Bafoussam** 2021-2022
I have been teaching Computer Science, Analog electronics, Power Electronics Bafoussam
 - During the 2021-2022 school year, I taught Power Electronics and Computer Science in Terminale F3 class
 - During the same year, I taught Analog Electronics in Première F3 class

PERSONAL PROJECTS

- **Design and realization of solar Drone equipped with Artificial Intelligence Algorithm** 2023
I trained a computer vision model to be able to detect and recognize pathologies on plants in the agricultural field
 - Tools & technologies used: Python, Google Colab, Jupyter Notebook, Pycharm, Vs code, keras, Tensorflow for Machine Learning and Deep Learning
 - The implementation of the project allowed me to have more knowledge about the drone, embedded systems, familiarization with the Google Colab environment by exploiting GPUs to train Computer Vision models, manipulation of raspberry pi 4 boards, coding experience etc.

TECHNICAL SKILLS AND INTERESTS

Languages: French and English

Developer Tools: Python, Jupyter Notebook, Pycharm, Vs Code, Anaconda, Blender, LabelImg, Make sense, Label Studio

Frameworks: Tensorflow, Keras, Open CV, SKlearn, Numpy, Matplotlib, Pandas, Scipy, Ultralytics, VGG16, GoogleNet, Alexnet, Resnet, Densenet

Cloud/Databases: Open Image Dataset, Kaggle, COCO Dataset

Soft Skills: Persuasive, Convincing, Attentive, Listening

Areas of Interest: I am a member of the « Inchtechs » Start-up (website: www.inchtechs.com) which offer a formation on Machine Learning, Deep Learning, Computer Vision (CV), IoT, Artificial Intelligence(AI); cybersecurity

POSITIONS OF RESPONSIBILITY

•**Position,** I took part in the Ngaoundere University Games 2023 by competing as part of GETEC In the category Technological Science and Digital Art

•**Position,** I am a member of the university's entrepreneurship club