Andry **RAFAM ANDRIANJAFY**
Deep Learning | Artificial Intelligence

Antananarivo, Madagascar   **Phone:** +261 32 50 352 57   **Email:** andryrafam@gmail.com

GitHub: https://github.com/AndryRafam

Trained as a mathematician, I really enjoy playing around with mathematics and programming languages (C++ && Python). Moreover, I have a deep interest for Artificial Intelligence with strong focus in Deep Learning and its application in computer vision. Check my GitHub above if you want to know more about what really like to do.

- ✗ **Programming Languages:** C++, Python 3
- ✗ **Libraries:** NumPy, Pandas, Scikit-Learn, Tensorflow, Keras, Crypto++, STL
- ✗ **Mathematics:** Algebra, Analysis, Algebraic Topology, Differential Geometry
- ✗ **Operating System:** Linux (Debian / Ubuntu ...)

Work History

Data Scientist | Deep Learning . Full Time
HaiRun Technology, Antananarivo – Madagascar
May 2021 – Present

- ✗ Building and maintaining Deep Learning models (mostly in the field of computer vision), either from scratch or using transfer learning techniques (feature extraction / fine tuning).
- ✗ Built a sentiment analysis model (French and English version) based on LSTM && GRU models, as part of an intern R&D project for the company.

C++ Developer . Part Time
Self Employed, Antananarivo – Madagascar
August 2018 – May 2021

- ✗ Built Linux command line programs. Below is my last project.
  Shadow: https://github.com/AndryRafam/Shadow
  Linux command line encryption / decryption program based on AES-256-GCM. (More details, follow the link)

Mathematics tutor . Part Time
Self Employed, Antananarivo – Madagascar
August 2018 – May 2021

- ✗ Taught mathematics and basics of programming to high school students.
  https://github.com/AndryRafam/CODING-PRACTICE

Education
Master of Science (M.Sc) in Mathematics
University Paris 7 (Denis Diderot), Paris – France
2013 – 2017

Deep Learning Project / Challenge

Makerere Passion Fruit Disease Detection Challenge: https://github.com/AndryRafam/Makerere
Built an ensemble of several models, that leveraged from transfer learning using architectures for computer vision (VGG16, VGG19, ResNet50V2, DenseNet201), to successfully predict if a random Makerere Passion Fruit is infected by fruit woodiness virus, possess a brown spot or is healthy. Two models achieved an accuracy higher than 98%. This project was inspired by Zindi competition: https://bit.ly/Makerere-Passion-Fruit