

Cédric Pascal-Emmanuel MANOUAN

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Education

Ecole Supérieure Africaine des TIC (ESATIC)

Bachelor of Computer Science : Systems, Computer Networks and telecommunications

Abidjan, Côte d'Ivoire

Oct. 2016 – Sep. 2019

Major subjects: *Applied mathematics, statistics, linear algebra, programming languages, data structures, operation research, operating systems, Object Oriented Programming, databases modeling, web development, electronics.*

Lycée Municipal Simone Ehivet GBAGBO

Scientific baccalaureate

Abidjan, Côte d'Ivoire

Sep. 2009 – July 2016

Experience

Data science pratitionner / Community ambassador | Zindi africa

(April 2019 – Present)

- Participating in competitions and hackathons on the platform (username : **I_am_Zeus_AI**), Top 100 among zindi data scientists
- Co-lead of the platform development group (updates and new features)
- Zindi ambassador from Côte d'Ivoire

End of cycle internship : Web/IoT/Machine Learning Developer

April 2019 – June 2019

Digital Solutions Project for the opening up of Rural Areas and E-Agriculture (PSNDEA)

Abidjan, Côte d'Ivoire

- Built an Internet of Things (IoT) system for data acquisition in a cassava field
- Developed a REST CRUD API based on NodeJs and MySQL to store data from both sensors and farmers inputs
- Developed a regression model to predict the yield of a given cassava field based on real-time and stored data
- Deployed the machine leaning model to an edge device (Raspbery Pi 3) using tensorflowJS

Projects

Zindi Competitions | Data science, Machine/Deep learning

April 2019 – Present

- Classify audio utterances in Luganda and English from Uganda (**7th/255** : **Team wakanda on the leaderboard**)
- Predicted whether a person in an image is wearing a face mask (**3rd/160** : **Team TheCIA on the leadernoard**)
- Built an AI system that can classify Tuberculosis and Normal X-Ray images for eucational purpose (**7th/104** : **Team DataLabCI on the leaderboard**)

ESATIC internal project | Python, Django, Materialize CSS, PostgreSQL

(Nov. 2018 – Feb. 2019)

- Developed a CRUD API aimed to help health workers and NGO managing fast screening tests

1st prize ESATIC Hackathon Level 2 (48h) | Python, Tensorflow, Deep learning, object detection

(May 2018)

- Contributed to the development of a deep learning model to recognize west African bank notes and coins

1st prize ESATIC Hackathon Level 1 (24h) | C++, Cryptography

(May 2017)

- Contributed to research and writing in C++ the encryption algorithm behind an executable program

Technical Skills

Languages: Python, JavaScript, C/C++, SQL (Postgres), HTML/CSS, R, Latex

Frameworks/Librairies: Pytorch, libtorch, Tensorflow, Keras, Scikit-learn, Nodejs, Material-UI, Pandas, NumPy, Matplotlib, Seaborn, Open-cv, Xgboost, Catboost, Lightgbm, Transformers

Developer Tools: Git, Docker, Amazon EC2, VS Code, Jupyter notebooks, Google Collaboratory

Interests, other skills and qualities

Social: Knowledge sharing, motivation, mentoring, community building (Data Science Côte d'Ivoire)

Academic: Artificial Intelligence research, reading papers, teaching, deep learning models building and implementation

Sports: Basketball, football

Qualities: good team spirit, passionate, hard worker