Esaïe Alain-Emmanuel KOUPOH

ML Engineer, Data Scientist, Instructor

📍 04 Fleurus street x Faidherbe Avenue, Plateau, Dakar, Sénégal

✉ emmanuelkoupoh@gmail.com 📞 +221785282560 in Esaie Koupoh

🖒 eaedk

Profile

Software engineer with 4 years of experience, specializing in Artificial Intelligence. Looking for exciting new challenges to explore new areas and gain more experience to deliver better Machine Learning models.

Professional Experience

AI Software Engineer (Full-time)   12/2020 – present
Baamtu Datamation ↗   Dakar, Senegal

Build ML and DL solutions for client operational needs.
- Wolof language data collection pipeline: Tool for audio data gathering and labeling to build NLP dataset for Deep Learning models training.
- Ganeyi MRZ OCR: Tool that reads the MRZ from a photo of ID cards or passports and parses the available information.
- Wakanda OCR Signup form API: Tool to automatically extract the handwriting data and passport photo in a signup form and return a structured format so it can be used to register the subscriber.
- Email Classification and Actions Automation: Tool to ease ticket handling for an insurance company more productivity and time to market. The received emails are classified and action is automatically triggered to process the ticket.

Machine Learning Instructor (Part-time)   01/2020 – present
Dakar Institute of Technology - DIT ↗   Dakar, Senegal

Deliver lectures, guide learners during the sessions and provide fine-grained feedback to help them to acquire advanced skills related to Computer Science, Software Engineering, Data Science, and Machine Learning.
- Introduction and Oriented Object Programming to concepts using Python 3
- Exploratory Data Analysis & Preprocessing using Plotly, Pandas, and Scikit-learn
- Machine Learning Modeling using Scikit-learn, XGBoost, and CatBoost
- Introduction to Deep Learning using TensorFlow, Keras, and PyTorch
- Introduction to Computer Vision with Deep Learning-based models
- Introduction to Natural Language Processing

Education

Master of Artificial Intelligence (Night course)   01/2022 – present
Dakar Institute of Technology ↗

Bachelor in Computer Science   2016 – 2019
Ecole Supérieure Africaine des TIC - ESATIC ↗   Abidjan, Côte d'Ivoire
Majors: IT Systems & Software Engineering.

High School Degree   2016
Collège Reference de Sinfra   Sinfra, Côte d'Ivoire
Majors: Mathematics, Physics, Chemistry, Biology.

Certificates

Applied AI with DeepLearning of IBM ⬀

Full Stack Data Science Training of VIVADATA Paris ⬀

Duolingo English Test ⬀
English proficiency

Organisations

Zindi ⬀
volunteer Country Ambassador for Senegal

2021 – present
Dakar, Senegal

Zindi is a data science competition platform, dedicated to solving Africa's most pressing problems by bringing together a community of data scientists who collaborate and compete to come up with the best possible solutions.

As a Senegal Zindi Ambassador, My role is to:

- To connect people (data scientists) to the community, allowing them to increase their skills and experience through competitions and training offered by Zindi.
- Connect companies to the platform to allow them to have efficient and satisfactory solutions to their concerns.
- Organize and lead events to promote the value of data science
- Monitor a real-living community of data scientists.

Languages

English
Fluent
● ● ● ● ○

French
Native
● ● ● ● ●

Projects

Predicting Customer Churn

2020

The purpose of the project was the building of a ML model to predict customer churn for Expresso Senegal, a telephone company.

Estimated Time for Arrival Hackathon

2019

The purpose was to build an ML model to estimate the time of arrival (ETA) for motorbike deliveries in Nairobi.

Detection of the symptoms of Swollen Shoot by drone

2019

The project aimed to build drone embedded ML model to detect the symptoms of Swollen Shoot with high accuracy in the orchards.

Skills

Python 3
● ● ● ● ○

Daily use. Able to build Machine Learning models and applications using this programming language.