Alidor MBAYANDJAMBE

Looking for a Master2 internship in Computer Science (Research)

Goals: After my internship, I plan to pursue a thesis, then a Pos-Doc.

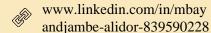
CONTACT

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https://github.com/FrereAlidor/Alidor



SKILLS

- **Programming languages:** Python, VB.Net, Java
- Library Machine Learning: Scikit-learn, Numpy, Matplotlib, Pandas, Seaborn, Scipy.
- Library Deep Learning: PyTorch, TensorFlow
- **IDE**: NetBeans, Jupyter Notebook,
- Computer vision: OpenCV, YOLO, image segmentation, object tracking

LANGUAGES

French: Native speaker

English: Intermediate

EDUCATION

2023 - 2025

Master in Computer Science in double degrees:

Vietnam National University, Hanoi, (Vietnam): Intelligent and Multimedia Systems (SIM)

University of La Rochelle (France): Digital Content Engineering for Enterprises (**ICONE**)

2016 - 2017

Bachelor's degree, BAC+5: Business Computing

University of Kinshasa (UNIKIN), Kinshasa-R.D. Congo

PROFESSIONAL EXPERIENCE

June 2017 to present

Teaching Assistant - University of Kinshasa, Kinshasa, R.D Congo - CDI

- Faculty of Sciences, Department of Mathematics and Computer Science

September-December 2022

Data Cleaner- Independent National Electoral Commission (CENI), DRC

June 2016-September 2020

IT Manager - National GIS Office, Kinshasa, DRC

February to June 2018

Data Cleaner- Commission Electorale Nationale Indépendante (CENI), DRC

MASTER'S AND PERSONNAL PROJECTS

- Object Detection, Segmentation and Tracking with YOLOv8: Implementation of an object detection model trained on a custom dataset. Integration of real-time instance segmentation and object tracking with YOLOv8(Dataset: Pothole-Image, PPE-Detection, Pen and Book Detection)
- Detection of synthetic images generated by generative models (GAN): Detection and classification of synthetic images with deep neural networks.
- Camera calibration and implementation of stereo/3D architectures: Development of solutions for depth perception and analysis of three-dimensional objects.
- Detection and Recognition of Cheating Movements in an Exam Room using Deep Learning: Implementation of an intelligent surveillance system using YOLOv4 and an LSTM model to detect and recognize cheating behaviors in an exam room in real time.
- Application of Artificial Intelligence for Automatic Detection of Pneumonia on Chest X-rays: Development of a classification model based on convolutional neural networks (CNN) to automatically detect pneumonia from chest X-rays. Use of TensorFlow and optimization of hyperparameters to improve model accuracy.
- Analysis and Classification of Soil Types from Satellite Imagery Using Artificial Intelligence Algorithms: Development of a classification model based on convolutional neural networks (CNN) and the Random Forest algorithm to analyze and classify soil types from satellite images, in the context of precision agriculture.
- Deep Learning for Image Segmentation with Python and PyTorch: Creation of an image segmentation model using the U-Net architecture and the PyTorch library for semantic segmentation tasks.
- Lingala Print Recognition via Deep Learning: Implementation of a Lingala print recognition system using convolutional neural networks (CNN), LayoutLM and the Connectionist Temporal Classification (CTC) algorithm for accurate recognition of character sequences.

CERTIFICATIONS

- Python for financial data analysis at DataSciente-France 2024
- Data Science: CNN & OpenCV: Chest X-ray detection of pneumonia: Udemy 2024
- Mastering image segmentation with PyTorch: Udemy 2024
- The basics of Machine Learning: Linkedln in Feb 2023
- Mastering OCR using Deep Learning and OpenCV-Python: Udemy in Oct 2023
- Machine Learning in Telecommunication: Boost your career with Machine Learning 2024

INTERNSHIP

- Recognition of actions in images Recognition of actions in images or videos:
 Smart Classroom application using Deep Learning techniques in the AI 4.0
 Lab at VNU-ITI, Hanoi (2024)
- Online internship: Virtual introduction to AI, data science and statistics: UtKarsh Minds Institute, India (2024)
- Academic internship at the Department of Information Systems and Technology (DSTI), RAWBANK General Management (2016)

PUBLICATIONS

- Alidor M. Mbayandjambe, Selain K. Kasereka, Vinh Ho Tuong (2024).
 Enhancing Printed Lingula Script Recognition using Deep Learning Techniques [Manuscript submitted for publication and accepted] in International Journal of Advanced Computer Science and Applications (IJACSA).
- Alidor M. Mbayandjambe, Selain K. Kasereka, Jean Didier M. Batubenga, Vinh Ho Tuong (2024). *Unmasking the Virtual: Advanced AI-generated Image Detection Techniques*. [Manuscrit in preparation].
- Alidor M. Mbayandjambe, Petro M. Tshakwanda, Selain K. Kasereka, Jean Didier M. Batubenga, Vinh Ho Tuong, Alain M. KUYUNSA (2024).
 Merging SENet and CBAM in CNNs for Optimized Image Classification on CIFAR-10. [Manuscrit in preparation].

DISTINCTIONS AND AWARDS

- Best research project at the Symposium Smart City: Experiences and Innovations ISSCEI 2023 & Smart Campus Asia Pacific Competition SCAPA 2023, The University of Danang January 12th, 2024
- Institut Francophone International (IFI) Excellence Scholarship for Master in Computer Science, 2023
- Excellence scholarship awarded by the University of Kinshasa for my academic distinction, 2018.
- Best research project at the Symposium for Young Researchers in Computer Science, University of Kinshasa, 2016

REFERENCES

• Dr. HO Tuong Vinh, Teacher, Researcher at Institut Francophone International-National University of Vietnam: Hanoi, Vietnam:

vinhht@vnu.edu.vn

• Dr. Selain Kasereka, Teacher, Researcher at University of Kinshasa, Kinshasa, DR. Congo:

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