

Aboubacar TUO



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Palaiseau, France

I am a final year PhD student working on information extraction, a domain that combines both deep learning and natural language processing and particularly focused on few-shot learning approaches for domain adaptation. I am currently seeking a R&D position in Artificial Intelligence applied to Natural Language Processing or related fields.

JOB EXPERIENCE

Oct. 2020

CEA LIST, PhD Student

Oct. 2023

Paris, France

- ✓ Few-Shot Information Extraction for Domain Adaptation.
- ✓ Meta-learning and Few-Shot generalization using pretrained language models (transformers).
- ✓ 3 conference papers about Few-Shot Event Extraction via meta-learning.
 - ↳ NLDB 2022 | ECIR 2023 | EMNLP 2023 (under review)
- ✓ Teaching assistant at Paris-Saclay University and CentraleSupélec
 - ↳ Machine learning | Python & Git | C++ | Cybersecurity

Jan. 2019

Apr. 2020

Paris, France

ASTEK GROUP, Machine Learning Engineer

- ✓ Build a recommender system that suggests customized articles to users in relation to their professional activities and interests: user profile modelling based on LDA, web scrapping, semi-supervised text annotation and multi-label text classification.
- ✓ Large scale task-oriented Chatbot using Deep Learning and RASA-X.

Apr. 2018

Aug. 2018

Paris, France

PICKUP SERVICES, Data Scientist Intern

- ✓ Mathematical modelling and simulation of a parcel relay to predict its behavior with the purpose of forecasting and anticipating operating anomalies in the relay point.
- ✓ Achieved good performance ($R^2 > 0.8$) in predicting the number of delivered and withdrawn packages each hour.

July 2017

Sep. 2017

Abidjan, Côte d'Ivoire

CURAT, Image Processing Intern

- ✓ GUI for satellite image processing with fundamental image processing functions. Used for practical experiments in a remote sensing research center.

EDUCATION

2020 - 2023

Paris, France

Phd Student: Few-shot information extraction for domain adaptation

Paris-Saclay University

2018 - 2020

Paris, France

Engineering degree: applied mathematics

Mines Paristech

2015 - 2018

Paris, France

Master of science: Automation, Signal and Image Processing

École Normale Supérieure Paris-Saclay

SKILLS

RESEARCH INTERESTS: NLP | Deep Learning | Few-Shot Learning | Transformers | Information Extraction | Opinion Mining

PROGRAMMING: Python | C++ | MatLab | Git | Bash | HTML | Docker | MySQL |

SOFT SKILLS: Passion of success | Openness | Communication | Integrity |

LANGUAGES: **English:** Advanced | **French:** Native | **Spanish:** Beginner

HOBBIES

MUSIC: Techno music producer & DJ

SPORT: Escalation | Musculation | Danse

ASSOCIATIVE: Nighthline Paris | Dema1n.org | Maison des jeunes talents