Abdoulaye SAYOUTI SOULEYMANE
R&D Artificial Intelligence Engineer at Aiway

Portfolio → https://abdoulaye-sayouti.github.io/

Profil

Driven AI engineer with 2+ years' experience building **NLP** models and working on **3D** data processing . Has a strong background in software development and telecommunications. Fluent in French and English; I also contribute to Open Source initiatives within the AI community.

Work Experience & Projects

2022-10 Present — **Aiway, Aix-en-Provence**
R&D Artificial Intelligence Engineer
- **Audit** of models developed in the dental field in order to identify, correct and improve shortcomings in the process of **data preparation**, **training** and **evaluation** of these models.
- Development of a **python library** for adapting planned digital building models (**BIM IFC**) to reflect the **as-built** state of the structure.
- **Technologies :** Python, Open3D, PyTorch3D, IfcOpenShell, BIMcollab ZOOM, MeshLab, Scikit-Learn & GitLab

2021-06 2022-09 — **Enedis AI Lab, Marseille**
Artificial Intelligence Engineer Apprentice
- **Text** and **time series** data processing.
- Technology watch, development of various models (**text classification**, **NER**, **text generation** and **auto-completion**), then **deployment** of these models in production.
- **Technologies :** Python, PyTorch, NumPy, Pandas, Scikit-Learn, RegEx, CamemBERT, BARThez, PostgreSQL, Flask, Docker, CodeCarbon & GitLab

2020-05 2020-09 — **Infineon Technologies Padova, Italy**
Data Analyst Intern
- Design and development of a **dashboard** for real-time **visualization** and **validation** of the company's **software**, **firmware** and **hardware** development processes, in compliance with **ISO 26262 "Road vehicles - Functional safety"** and **Automotive SPICE** standards.
- **Technologies** : Python, MySQL, Logstash, Elasticsearch, Kibana, Balsamiq Wireframe, Jenkins.

2021-03 2021-06 — **School projects**
Hadoop & Rasa Open Source
- Development of a **Voice Chatbot** and interfacing with **Pepper** and **NAO** robots using the **Rasa Open Source** framework and **Coregraphe Suite**.
- Distributed implementation of the **K-means** clustering algorithm using **Hadoop's MapReduce** parallel programming paradigm.

Education

2020-10 2022-06 — **Center for Education and Research in Computer Science (CERI)**
M.Sc in Artificial Intelligence, Avignon University

2019-09 2020-09 — **University of Padova, Italy**
ERASMUS + M.Sc in ICT for Internet and Multimedia

2017-09 2020-09 — **Higher School of Communication of Tunis, University of Carthage**
Engineer in Telecommunications

2016-09 2017-06 — **National School of Electronics and Telecoms, University of Sfax**
1st year M.Sc in Information and Communications Technology

2013-09 2016-06 — **Faculty of Sciences of Gabes, University**
B.Sc in Computer Science

Paper & Certifications

2023-08 — HAPe: Optimizing Customer Relation by Automatic Task Distribution using Constrained Optimization and Natural Language Processing (**CIRED 2023 - Enedis**)

2020-11 — Mathematics For Machine Learning Specialization (**Coursera**)

2019-11 — Neural Network and Deep Learning (**Coursera**)

2019-05 — 98-369:MTA: Cloud Fundamentals (**Microsoft**)

Personal Info

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Industries

- Telecommunications.
- Electricity.
- Building information modeling (BIM).
- Dental.
- Semiconductor.

Skills

Skill	Level
Machine Learning & Deep Learning	●●●●○
Natural Language Processing	●●●●○
3D data processing	●●●○○
MLOps, Docker & GitLab	●●●○○
Python & Scikit-Learn	●●●●●
PyTorch & TensorFlow	●●●○○
Transformers & RegEx	●●●○○
Hadoop & Talend	●●○○○
Data Visualization, Tableau & ELK Stack	●●●○○
PostgreSQL & AWS	●●●○○
C, C++ & Java	●●●○○
Linux/Unix & Matlab	●●○○○
JavaScript, NodeJs, Flask & PHP	●●○○○

Languages

Language	Level
French	●●●●○
English (B2)	●●●○○