Amdjed Bensalah

ML Engineer · Data Scientist

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Personal Profile

A final year student standing between AI, data and everything that has to improve codes and lives.
With 1+ years of experience specializing in Machine Learning, Python development & Data Science.
Primarily, looking for AI & MLOps engineering roles.

Education

PARIS-SACLAY University   *Paris, France*
MSc. In Virtual Reality and Intelligent Systems   *Sept 23 - Current*
- Deep learning for computer vision
- Pattern Recognition and Biometrics
- Multi-source data processing

Ecole Supérieure en Informatique 08 Mai 1945   *Sidi Bel Abbes, Algeria*
MSc in Computer Systems Engineering   *Sept 2018 - July 2023*
- Analyze and design Deep Learning models.
- Define the needs and architecture of software.

Professional Experience

IRT SystemX   *Palaiseau, France*
Machine Learning Intern   *March 2024 - August 2024*
- Evaluated the effectiveness of AI models in terms of precision, security, and privacy protection.
- Adapted existing techniques of differential privacy to specific use case requirements.
- Contributed to the development of an API ensuring these functionalities.

Epsidy   *Nancy, France*
Machine Learning Intern   *Feb 2023 - July 2023*
- Worked on a project around realtime ECG signal analysis & segmentation that is used to help cardiologists in the diagnosis.
- Improved inference time of the deep learning optimized model from 4s to 3ms during my internship.
- Deploy AI models into realtime production in Nvidia Jetson Nano.

Realistic Security   *Algiers, Algeria*
Systems Automation Trainee   *Sept 2021 - Oct 2021*
- Development of an Ansible playbook to automate the installation and configuration of a penetration test environment.
- Conducted thorough testing and bug fixes, ensuring software reliability.

Projects

Real-time ECG Signal detection using DL on edge devices
Academic & commercial project - with Epsidy   *Feb 2023 - July 2023*
- The realization of a real-time R-peak detection app using deep learning techniques on edge devices.
- I worked on the ML models optimization & deployment on edge devices part.

Get-10 (LLM)
Personal project   *Avr 2023*
- Developed an app that leverages GPT-3 to answer school course questions based on teachers' lectures data.
- Dockerized & Deployed on a web page to be used.

Spam Detection System (NLP)
Academic project   *Feb 2022 - Jun 2022*
- The realization of a Spam Detection System using state-of-the-art BERT model to be implemented in Google Add-on as interface for user.
- I worked on the ML part & reporting specifications and lead the team.

Edurika Bot
Freelance Project   *Nov 2020*
- A chatbot that provided hundreds of students with information about the topics covered in previous exams.
- Built using the Telegram-bot API, and has been interfaced using python.

Skills

Machine Learning	Python, Pandas, Numpy, Sickit-learn, Pytorch, Tensorflow.
DevOps	Linux, Shell (Bash/Zsh), Docker, DigitalOcean, Ansible, Git.
Programming Languages	Python, Java.
Databases	MariaDB, MySQL.
Hardware	Raspberry PI, Jetson Nano
Other skills	Agile, Time Management, Teamwork, Problem-solving, Documentation, Engaging presentation.

Achievements

CSAW'22 FINALS
7th place for "OctaC0re" at CSAW'22 CTF Finals held at NYUAD, Abu Dhabi, UAE. *Nov 2022*

AI HACK Tunisia 2.0
10th/300 place at the advanced NLP challenge, Tunisia *Aug 2022*

Google Hash Code
1st place for "OctaC0re"at HASH CODE QUALS held at Alphabit Hub, ESI SBA, ALGERIA. *Feb 2022*

AlphaCTF 1.0
2nd place for "OctaC0re" at Capture The Flag competition, ESI SBA, ALGERIA. *Feb 2022*

Hack.INI CTF 2021
3rd place for "OctaC0re" at Hack.INI the annual computer security event held at ESI ex INI, ALGIERS. *Nov 2021*

Coding Challenge 3.0
4th place at the Coding Challenge Competition (v3), ESI SBA, Algeria. *Jun 2021*

Languages

English	Professional proficiency
French	Full professional proficiency

Activities

- Contributing to open source projects that relates to cyber-security and machine learning.

- Since 2020, I have been an instructor at workshops on Machine Learning, Python Programming.