

Adel Boulaouad

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EDUCATION

Master of Artificial intelligence - AI Autumn 2022
Université Laval, Québec, Canada (GPA 4.17 /4.33)

Master of Computer Science - Intelligent Systems and Data 2022-2023
Higher School of Computer Science (ESI), Algiers

Bachelor of Computer Science 2018-2022
Higher School of Computer Science (ESI), Algiers

EXPERIENCE

Machine Learning (ML) Engineer May 2023 - December 2023
AlleyCorp Nord, Montreal QC

- Integration of NLP features of Podsie (Client) using LLM's (Open source and OpenAi API)
- Creation of an end-to-end MLOPS pipeline for quick experiments, integration, deployment and maintenance of ML systems for different tasks and companies.

NLP engineer and project manager September 2022 - May 2023
Juriste Dz, Algeria

- Conception of applications (web and desktop) for injection of legal content.
- Automation of the extraction of metadata from scanned files with Computer Vision methods (Detectron2, Google OCR).
- Improve the search engine with NLP methods (keywords, NER, optimization).

Data Science Intern April 2022 – July 2022
Launchpad.AI, USA (remote)

- Project Manager of a team that implemented an end-to-end artificial intelligence project.
- Conception of a conversational agent whose goal is to suggest clothes based on the tastes of the user. The agent is on online store sites with the aim of boosting sales.
- Design of the architecture of the project, conception of the modules, preparation of the appropriate data, testing, validation, deployment of the model on Telegram and presentation of the final product to the client

NLP Intern May 2021 – September 2021
Right Innov, Algeria

- Extract Algerian dialect from YouTube data using YouTube API and process the dataset.
- Research on the current state of the art in NLP and preparation of the adequate architecture (BERT Transformers).
- Implementation of three BERT models for the Algerian dialect: a model from scratch (from scratch) and two Bert models pre-trained from Arabic and English models. Comparison of results and presentation of the best model to the client.

Data mining Intern

Société Générale, Algeria

September 2021 – November 2021

- Analysis of company data concerning the youth market to increase the visibility (and sales) of the company through targeted product for this category.

SKILLS

Languages: English, French, Arabic (fluent)

IT Skills:

Web/Mobile/Desktop Development: Flutter, HTML5, CSS3, JS, node, d3.js, react, bootstrap.

Natural Language Processing: HuggingFace, Transformers, Spacy, NLTK, LLMs.

Computer vision: Detectron, VinVI, Yolov7.

Database management systems: MySQL, Oracle, PostgreSQL, MongoDB.

Programming Languages: Ruby, Java, C, C++, R, Matlab.

Python: Pandas, Numpy, Matplotlib, Scikit-learn, Pytorch, Tensorflow, Optuna, Keras ...

Business Intelligence: Power BI, Tableau, Talend, SAS.

MLOPS: TFX, Docker, Kubernetes, Jenkins, GitHub actions, Apache Spark, Beam, Airflow,

MLFlow, ZenML, Kubeflow, Cloud (AWS, GCP).

Certifications:

- Deep Learning Specialization, Deep Learning Ai, 2023
- NVIDIA DLI Certificate: Fundamentals of Deep Learning, Nvidia, 2022
- Natural Language Processing Specialization, DeepLearning.ai, 2021

OTHER RELEVANT EXPERIENCE

Data Science study for Pivony

02-2022 / 04-2022

Implementation of a Topic Labeling algorithm and present the results in a comparative way, using a benchmark dataset.

Datagoshi: vote or abstain?

09-2022 / 12-2022

Predict whether an individual will vote or abstain during elections to establish typical profiles of voters and abstainers using company data.

REFERENCES

Aleksey Kocherzhenko

Data scientist

Launchpad.AI

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Imene Zebboudj

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