WACIM BELAHCEL

ML ENGINEER

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SUMMARY

As a passionate and innovative machine learning engineer, I specialize in developing and deploying large-scale machine learning models, particularly in NLP and compturer vision architectures. With extensive experience working with state-of-the-art deep learning frameworks like PyTorch and transformers, I have a strong background in building and scaling ML pipelines. My hands-on expertise extends to working with cloud-based infrastructure, making me well-equipped to contribute to cutting-edge AI solutions.

At the intersection of research and production, I thrive to learn and evolve in fast-paced environments focused on pushing AI to new boundaries while solving real-world problems.

SKILLS

- Classical Machine learning
  supervised/unsupervised methods, *forecasting...*
- Deep learning
  CNN, LSTM, Transformers, (V)AE, GAN, Energy-Based architectures...
- Natural Language Processing
  Classification, clustering, NER, parsing, OCR, language modeling, topic detection...
- Computer vision
  classification, recognition,detection, Document understanding, segmentation, generation...
- Software development
  scripting, oop, git, networking, Database management
- ML Tools
  sklearn, datasets, pytorch, transformers, NLTK...
- Data wrangling tools
  Spark, (geo)pandas, numpy, scipy, opencv, Pillow...
- Mlops
  mlflow, dvc, Hydra

WORK EXPERIENCE

Groupe Covéa • Paris, France

Machine learning engineer • 2020 - 2024

- *Developed a scalable, NLP-based customer feedback analysis solution, applying MLOps and software engineering principles, with Azure and Databricks.*
- *Led the development and deployment of advanced NLP models for diverse tasks and built custom, state-of-the-art document recognition solutions in production environments, leveraging deep learning and computer vision technologies.*
- *Supervised interns for the development of POC solutions for computer vision (Table KIE) and NLP (Polarity based sentence segmenter).*

Keywords: *Azure, Databricks, Natural language processing, Computer Vision, Document AI*

CERIST •

Data science researcher (Internship) • 09/2018 - 02/2019

- *Compiled a comprehensive dataset for analysis purposes.*
- *Conducted thorough data cleaning and processing to ensure quality inputs for model training.*
- *Implemented advanced data visualization techniques for insightful analysis and interpretation.*
- *Leveraged scholarly research documents in the development and refinement of opinion analysis models."*

Keywords: *Opinion mining, Natural language processing*

CDTA •

Data science researcher (Internship) • 01/2018 - 04/2018

- *Conducted research on implementing Generative Adversarial Networks (GANs) for discrimination tasks.*
- *Developed an image captioning AI in Python, integrating Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs).*
- *Led deep learning discovery sessions, introducing core concepts and technologies.*

Keywords: *Generative Advertisal networks, Image Captioning, Deep leraning architectures*

Infinitus-IT •

Software Developper (Internship) • 05/2017 - 07/2017

- *Developed a dental clinic management desktop application using the Electron framework and Vue.js.*
- *Implemented an API and established a Couchdb database for efficient data management.*

EDUCATION

Master 2 Machine learning for Data science

Université Paris Cité • 2020–2021

Master 1 Distributed artificial intelligence

IUniversité Paris Cité • 2019–2020

Software engineering

Exia.Cesi • 2015–2019

LANGUAGE

- French (native)
- English Fluent(TOEIC 980)