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Manel ALOUI

Machine Learning Engineer

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Innovative Machine Learning Engineer with 2 years of experience of freelancing works. Highly experienced in writing codes and algorithms as well as building complex neural networks. Possess an unbridled passion for NLP with comprehensive knowledge of its concepts.

SKILLS

Tools and Languages	Python, scikit-learn, Pytorch, Tensorflow, Keras Flask, Git, Docker
Quantitative Research	Mathematical optimization, Mathematical Modeling, Probability, Algebra
Communication	English, French (fluent speaker), Arabic (Mother tongue)

TECHNICAL EXPERIENCE

Full time Data Science instructor **Oct 2022 — Dec 2022**
Allwomen *Spain, Remote*

- Teach, develop, and support any student to help them develop their data science and artificial intelligence skills
- Learn and share new methods and techniques in Data Science, Machine Learning, and Artificial Intelligence
- support students in their final project

Full time Machine Learning engineer / Multi Label Text classification **Jan 2022 — Jul 2022**
Willow *Belgium, Remote*

- Comparative analysis between text annotation tools: Snorkel and Rubrix.
- Labeling text with Rubrix.
- Prepare a baseline text classifier with fast.ai.
- Develop a multi label text classification model with BERT.
- work with the Team Lead to validate the MLOPS pipeline
→ Python, Pytorch, HuggingFace, Rubrix, Fast.ai.

Freelancer Machine Learning Engineer / Data extraction from Clinical text **Sep 2021 — Dec 2021**
self employed *Tunisia, Remote*

- Read and understand research paper to select the suitable algorithm to implement.
- Create a model that extract PICO elements from medical texts (Problem, Intervention, Comparasion, Outcome).
→ Pytorch, Transformers, HuggingFace.

Freelancer NLP engineer / Chatbot development with RASA Framework **March 2021 — Aug 2021**
GD-collectData *France, Remote*

- Work on Rasa framework to build customized chatbots.
- Update the Rasa default pipeline to work with transformers.
- Work on RASA x to deploy the chatbot.
- Collaborate with the scrum master to ensure the agility of the project.
→ RASA 2.0, RASA x, Python, BERT

Part-time Data scientist / Data scrapping for Market research **Oct 2020 — Dec 2020**
Mentogram *Singapore, Remote*

- Scrape review data to analyze and get insights from it from Truspilot.
- Build a model for social media sentiment analysis.
→ Scrapy, BeautifulSoup, NLTK

Freelance business developer / Market research for Business development **Aug 2020 — Oct 2020**
HikView Engineering *Tunisia, Remote*

- Build an ERP system for a company's client.
- Organize marketing campaign and analyze results..
→ odoo, Python

Machine Learning Intern / Recommender system for ecommerce **Feb 2020 — July 2020**
Telnet Holding *Tunisia, Remote*

- Design and implement a recommender system for e-commerce using a deep learning technique matrix factorization and latent factor model.
- Build a model for sentiment analysis to predict the user's feedback.
→ Keras, NLTK, Python

EDUCATION

Master of Engineering in Telecommunication, *Higher school of communications of Tunis SUPCOM* 2017 - 2021

Majors: Probability, Mathematics, Machine Learning, Smart sensors.

Accredited from the CTI (label EUR ACE)

Preparatory Classes, *Faculty of Science of Monastir, Tunisia* 2015 - 2017

Intensive undergraduate-level preparation in advanced Mathematics and Physics for competitive entrance examinations to Tunisian Graduate Engineering Schools: Rank 49 out of 994

ONLINE TRAINING AND CERTIFICATES

- MLOPS training (DataTalksClub).
- Deploying Pytorch models in production (Pluralsight).
- Building Features from text Data (Pluralsight)
- Statistics for Marketing (Meta)
- Analyzing Marketing Campaigns with pandas(DataCamp)
- Preprocessing for Machine Learning in Python (DataCamp)
- Web scraping with Python (DataCamp)
- NLP specialization (DeepLearning.ai)
- Machine Learning for marketing (Datacamp)