Taycir Yahmed

Data Scientist / Machine Learning engineer
Looking for a full-time position, starting from August 2018

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Skills

Machine learning
pytorch, sklearn, keras, tensorflow, spark mllib/ml

Programming
python (expert), C++ (prior), R (prior), SQL (proficient), java (prior), matlab (prior)

Big data
Hadoop, spark, kafka, elasticsearch, hive.

Web
html5, javascript, jquery, node.js, flask

Other tools
linux, jupyter, git, docker, jenkins, travis, GPUs

Certifications

Deep learning (Andrew Ng)
Mobile developer (IBM)

Languages

English: Fluent, Toeic : 975
French: Fluent, Voltaire: 812
Spanish: Intermediate
German: Beginner
Chinese: Beginner
Arabic: Fluent

Distinctions

- Entrepreneurship and innovation challenge, 2016
- Humanitarian awards: Best communication, 2015
- IBM mobile, cloud and big data hackathon, 2014

Volunteering

Social media coordinator
Open source contributor
TED translator

Education

Master of research, PARIS-SACLAY UNIVERSITY, 2018
- Deep/Machine learning, image processing, text mining, NLP, big data.
- Projects: Fake news detection, recommender system, chatbots.

Engineer's degree, TELECOM PARISTECH, 2017
- Data science, optimization, statistics, applied mathematics. GPA 3.99.
- Projects: Face recognition, sounds identification, credit scoring.

Engineer's degree, INSTITUT MINES TELECOM - SUPCOM, 2016
- Top of the school. Telecommunication and computer science.
- Project: Customer satisfaction using NLP and machine learning.

Experience

R&D machine learning intern, BNP Paribas | FRANCE, JAN - JUL 2018
Mission: Data augmentation for neural machine translation.

- Increased the BLEU score using bilingual dictionaries, clause detection and segmentation with **attention weights** , back-translation and synthetic contexts.
- Handled rare words for better translations using BPE, normalization with **named-entity** recognition and external knowledge integration.
- Improved context **disambiguation** using pre-trained word embeddings and linguistic features: part-of-speech tags, dependency parsing labels and lemmas.

Mission: Internal document matching for specialized machine translation.

- Matched multilingual documents to create a parallel in-domain corpus, using OCR, a cross-lingual version of **bag-of-words** and sentence alignment.
- Trained **specialized** neural machine translation models, using fine tuning, up-sampling and domain tags as additional features, using GPUs.

Mission: Summarization using a hybrid abstractive / extractive approach.

- Improved the ROUGE score using abstractive and extractive summarization.

Big data science intern, Renault | FRANCE, JUL - SEP 2017
Mission: Production-ready predictive maintenance solution for the factories.

- Predicted +87% of future defects, by implementing an end-to-end solution, with batch machine learning, **continuous integration** and log monitoring.
- Reduced manufacturing costs by providing business teams **real-time** visualization dashboards, based on **stream processing** in a big data cluster.

Analytics/data science project, CB Group | FRANCE, FEB - JUN 2017
Mission: Data analytics to support deeper market understanding.

- Delivered insights about the company's **market share** in 732 economic sectors.
- Modeled the geographic density: hypothesis testing and variable importance.
- Developed a **dashboard** to visualize the findings with Google design patterns.

Data science intern, IBM | TUNISIA, JUN - AUG 2016
Mission: Pilot project to test IBM Data Science Experience cloud platform.

- Predicted post-collegiate earnings with -15% of error, using **regression** , handling missing values with **imputation** techniques and feature engineering.

Mobile & analytics intern, IBM France Lab | FRANCE, JUN - AUG 2015
Mission: Mobile app to determine the adequate profile for an emergency

- Design thinking and development, including **speech-to-text** and text mining.

Seeds For The Future Program, Huawei | CHINA, SESSION 2016
Technical training at Huawei labs with language courses at Beijing University.