Taycir Yahmed

NLP Data Scientist / Machine Learning engineer Leveraging AI to help machines understand human languages

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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, 2018

- Data science, optimization, statistics, applied mathematics. GPA 4.
- 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

NLP / Machine Learning Eng, BNP Paribas | FRANCE, JAN 18 - NOW

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 17

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 17

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 16

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 15

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 16

Technical training at Huawei labs with language courses at Beijing University.