Maria AFARA

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SKILLS

Python • Java • C/C++
Tensorflow • Keras • Pytorch
Pandas • Numpy • Sklearn
Matplotlib • Seaborn
SQL • MYSQL • PySpark
Spacy • NLTK • Gensim
Git • Docker

EDUCATION

UNIVERSITÈ DE LORRAINE
Master 2 in Natural Language Processing
Sep 2019 - Sep 2020

UNIVERSITÈ LIBANAISE
Master 1 in Computer Science
Sep 2018 - Aug 2019

Bachelor in Computer Science
Sep 2015 - Sep 2018

COURSEWORK

GRADUATE
Deep Learning & Machine Learning
Speech & Text Processing
Ontology & Terminology
Data & Text mining
Big Data & Cloud Computing
AI & Knowledge Representation
Design Patterns
Advanced Databases

UNDERGRADUATE
Algorithms & Data Structure
Graph Theory
Object Oriented Programming
Numerical Analysis & Linear Algebra
Databases

CERTIFICATION

• Machine Translation ☑
• Natural Language Processing Specialization ☑
• Deep Learning Specialization ☑
• TensorFlow Developer Specialization ☑

ABOUT ME

Native in **Arabic**, fluent in **English**, and beginner in **French**.

EXPERIENCE

AI/ML INTERN | SAP Labs
March 2020 -- August 2020| Mougins, France

The main aim was to identify & sanitize sensitive information in unstructured text according to the GDPR protocol using AI/ML.

- Researched & developed SOTA techniques for **information extraction** & **sentence level classification**
- Performed **weak supervision** approach to label unlabeled data
- Designed, developed, and tested several **topic classifiers** using **transfer learning** for French dataset
- Built a huge English dataset about real people biographies using DBpedia KB and Wikipedia dumps
- Performed various feature engineering
- Built a **Relation Extraction** pipeline that combines **Named Entity Recognizer** & **Relation Classifier** to identify the sensitive information
- Mostly worked with Keras, Tenserflow, Spacy, Pandas, Numpy, Matplotlib, Sklearn, mBert, CamemBert, Snorkel, PySpark, BiLSTM, CNN, FastText, SPARQL

PROJECTS

NEURAL MACHINE TRANSLATION | Personal Project ☑
- Building **seq2seq** models to translate English sentences into French sentences

ECOMMERCE CUSTOMERS REGRESSION | Personal Project ☑
- Selected top **regression** models and tuned their hyperparameters for the task of predicting the yearly amount of money spent by customers on purchasing goods.
- Decide whether to focus the efforts on developing the mobile application or the website for further improving the sales

FACIAL LANDMARKS DETECTION | Personal Project
- Applying **computer vision** techniques to detect facial key-points from uncolored images

ONLINE TEXT EDITOR | University Project
- Constructed a **neural language model** to predict the next word in a sentence, a spellchecker & a system that proposes synonyms or acronyms replacements for each word in the input text

BREAKING NEWS DETECTION | University Project
- Built a summarization model that summarizes a text and a classifier that predicts if the summarized news is breaking or not, prior to that the training data was labeled by unsupervised learning

LANGUAGE RECOGNITION | University Project ☑
- Designed and developed an RNN based classifier in Pytorch that recognizes 8 languages