MariaAfara
NLP | Deep Learning

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Skills & Strengths

NLP Libraries
- NLTK, SpaCy, Gensim, etc.

NLP Applications
- Named Entity Recognition, Text Summarization, Text classification, POS tagging, Dependency Parsing, etc.

Transformer Algorithms
- BERT, ALBERT, ELMO, GPT2, etc.

NLP Techniques
- Attention mechanism, Transformer, Word Embedding, Tokenization, RNN, LSTM, etc.

Computer Vision - DL
- CNNs, EfficientNet, ResNet, GoogleNet, ImageNet, etc.

Others
- Java, Pyspark, Git, MySQL, SQL, Docker, MongoDB, OpenCV

Classification | Regression
NLP | Machine Learning
NLG | Deep Learning
NLU | Information Extraction

Eager to deepen knowledge about...

- ...Tensorflow-serving
- ...Docker
- ...Flask

Libraries

EDUCATION

2019 - 2020 **Master 2 in Natural Langu[a]ge Processing** 📍 **University of Lorraine, France**
Coursework: Deep Learning, Machine Learning, Data & Text Mining, Recommendation System, Speech & Text Processing, Lexical Resources, Ontology, Lambda Calculus, etc.

2018 - 2019 **Master 1 in AI and Big Data** 📍 **Lebanese University, Lebanon**
Coursework: AI & knowledge Representation, ML, Big Data, Cloud Computing, Design Patterns, Image Processing, Distributed Systems, Advanced Databases, etc.

2015 - 2018 **Bachelor in Computer Science** 📍 **Lebanese University, Lebanon**
Coursework: Data Structures, Graph Theory, Mobile Development, OOP, Numerical Analysis, Linear Algebra, Databases, Project Management, Software Engineering, etc.

EXPERIENCE

6 months **NLP Data Scientist Intern | SAP Labs** 📍 **Mougins, France**
- 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
- 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, Git, Docker**

PROJECTS

Present **Question Answer Search**
- Implemented question answering system through **semantic similarity matching**.
- Techs: Bert, MongoDB, Docker, Milvus, Pandas, Numpy...

Present **Neural Machine Translation**
- Building a package for experimenting with NMT task.
- Worked with **Encoder-Decoder** architecture with and without **attention mechanism**.
- Techs: Tensorflow, LSTM, GRU, SKlearn, Pandas, Numpy...

Present **Facial Key-points Detection**
- Created custom data generator with various random augmentations (increase/decrease brightness, horizontal flipping, rotation and shifting).
- Experimented with simple and **per-trained models** such as ImageNet, VGG, etc.
- Techs: Tensorflow, Keras, OpenCv, SKlearn, Pandas, Numpy...

Languages

Language	Level
Arabic	●●●●●
English	●●●●○
French	●○○○○○

Certification

Advanced Deployment Scenarios with TensorFlow
Natural Language Processing Specialization
Deep Learning Specialization
TensorFlow Developer Specialization