Ahmed Oumar

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EXPERIENCE

NLP Engineer Intern — February 2022 – June 2022
Walmart Global Tech
- Optimization for Walmart Large Scale Language Model for Product type prediction.
- Used Knowledge Distillation and Transfer Learning to solve this task.
- Result in 2x lighter and Faster Language model.

ML Research Fellow — Mai 2022 – Present
FatimaFellowship
- Working on ML Projects

NLP Research Assistant — July 2021 – August 2021
Iwan lab- King Saud University
- Built an LSTM Architecture for Arabic Reverse Dictionary .

NLP Research Assistant — Mars 2021 – July 2021
University Mohammed 6 Polytechnic
- First Place in ArMI2021 subtrack of HASOC @FIRE2021.
- Hate Speech Identification with BERT based model.
- Collecting and Annotating data for Arabizi.

PUBLICATIONS

Deep Multi-Task Models for Misogyny Identification and Categorization on Arabic Social Media
- Ranked 1st at the ArMi Shared Task.
- ArMi: First Arabic Misogyny Identification Shared Task.
- Introduced a method for multi-task learning combining misogyny identification and text classification.
- Fine tuning MarBERT for Misogyny identification and categorization.
- https://arxiv.org/abs/2206.08407

PROJECTS

Deployed a Turjuman web app | *PyTorch, Transformers, Gradio*
- Built using AraT5 LM, translate between 20 languages to Arabic using Turjuman: https://shorturl.at/gnu48

Deployed Sentiment Analysis Web App using AWS and Pytorch | *PyTorch, SageMaker*
- Used LSTM model for sentiment analysis and deploy it on AWS using Pytorch and SageMaker.

Question-Answering with Transformer Models | *Trax*
- Used T5 and BERT models to perform question answering.

Chatbots with a Reformer Model | *Trax*
- Built a Chatbot using a Reformer model.

Human Face Generation With GANs | *PyTorch*
- Used Deep Convolutional Neural Networks In Generative Adversarial Setting to generate human faces.

EDUCATION

Cadi Ayyad University — Marrakech, Morocco
Bachelor's Degree in Math and Computer Science — *Graduated July 2021*

CERTIFICATES AND AWARDS

Coursera Certificates: NLP, MLOps, Deep Learning Specialization with Prof Andrew Ng.
Udacity: Udacity Deep Learning Nano Degree.
Awards: Facebook Secure and Private AI 2019 Challenge Winner; Ranked 1st in ARMI Shared Task.

TECHNICAL SKILLS

Programming: Python, SQL, PyTorch, Pytorch-lightning, Tensorflow, PySpark, TFX, Jax, Trax, Keras, NLTK, Gradio, Numpy, Pandas, Matplotlib, Sklearn, Rubrix, AWS SageMaker, MlFlow, Jupyter notebook, git/github, Slack