

Wissam Antoun

GRADUATE RESEARCHER · MASTERS STUDENT

Beirut, Lebanon

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Summary

Artificial Intelligence and Machine Learning Engineer specialised in state-of-the-art Natural Language Processing techniques. Within 1 year, I had developed my knowledge of NLP and published one the most famous and powerful AI models for Arabic text representation. I also ranked in top places in almost all AI competitions that I participated in. In addition, I have 2 years of experience in teaching as a Graduate Teaching Assistant at the Eng. faculty at AUB and through online sessions. I'm self-motivated, self-taught and a performer when working on tight deadlines. I'm also a tech geek who loves computer hardware and technology, and enjoys DIY projects and gaming.

Work Experience

Zaka

AI INSTRUCTOR

Online

May. 2020 - Current

Developed and delivered training on AI and ML topics including Natural Language Processing

Stars of Science

Doha, Qatar

MACHINE LEARNING EXPERT

Feb. 2020 - Apr. 2020

Provided ML and AI solutions to contestants as part of the support team

MIND Lab (Prof. Hazem Hajj) - American University of Beirut

Beirut, Lebanon

GRADUATE RESEARCH ASSISTANT

Sep. 2018 - Current

Research focuses on SOTA NLP technologies and social chatbots.

ECE Dept. - American University of Beirut

Beirut, Lebanon

GRADUATE TEACHING ASSISTANT

Feb. 2018 - Dec. 2018

- EECE 435L: Software Tools Lab, Co-Instructor (3 semesters)
- EECE 696: Applied Parallel Programming, Lab instructor (1 semester)
- EECE 330: Data Structures and Algorithms, Lab instructor (1 semester)

Huawei Technologies (Lebanon)

S.A.R.L.

Beirut, Lebanon

INTERN

June 2016 - Aug. 2016

Learned about various LTE principles, base station hardware, and Microwave transmissions systems.

Publications

AraBERT: Transformer-based Model for Arabic Language Understanding. **Antoun, Wissam, Fady Baly, and Hazem Hajj** *Proceedings of the 4th Workshop on Open-Source Arabic Corpora and Processing Tools at LREC 2020*, 2020, Marseille, France

Multi-Task Learning using AraBert for Offensive Language Detection. **Djandji, Marc, Fady Baly, Wissam Antoun, and Hazem Hajj** *Proceedings of the 4th Workshop on Open-Source Arabic Corpora and Processing Tools at LREC 2020*, 2020, Marseille, France

State of the Art Models for Fake News Detection Tasks. **Antoun, Wissam, Fady Baly, Rim Achour, Amir Hussein, and Hazem Hajj** *2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIOT) (ICIOT'2020)*, 2020, Doha, Qatar

hULMonA: The Universal Language Model in Arabic. **ElJundi, Obeida, Wissam Antoun, Nour El Droubi, Hazem Hajj, Wassim El-Hajj, and Khaled Shaban** *Proceedings of the Fourth Arabic Natural Language Processing Workshop at ACL*, 2019, Florence, Italy

A Comprehensive Approach for A Smart Medication Dispenser. **Kassem, Abdallah, Wissam Antoun, Mustapha Hamad, and Chady El-Moucarry** *International Journal of Computing and Digital Systems* 8.02 (2019) pp. 131–141. University of Bahrain, 2019

Smart Medicine Dispenser (SMD). **Antoun, Wissam, Ali Abdo, Suleiman Al-Yaman, Abdallah Kassem, Mustapha Hamad, and Chady El-Moucarry** *2018 IEEE 4th Middle East Conference on Biomedical Engineering (MECBME)*, 2018

Real-Time Fire Detection Using CUDA. **Antoun, Wissam and Manal Jalloul** *ISC High Performance*, Poster Presentation, 2019, Frankfurt, Germany

Honors & Awards

Second Place, OSACT4-Shared task on Offensive Language Detection, 2020 Marseille, France

Best Domain Detection system, Qatar International Fake News Detection and Annotation Contest, 2019 Doha, Qatar

Second Place, Mindsets-OLX Datathon, Best car price prediction score. kaggle.com/c/mindsets, 2019 AUB, Lebanon

First place, Big Data, AI, and Media Hackathon Powered by Touch and Anghami, 2019 AUB, Lebanon

Presentations

High Performance Computing for Lebanon (HPC4L) Brown Bag, Presented the use case of HPC for pretraining transformer-based model for Arabic language Understanding for HPC4L, Feb. 2020 Beirut, Lebanon

PyData Khobar meetup, Presenter for AraBERT: pretraining, use cases and future improvements, May. 2012 Online

Education

Masters Of Eng. In Electrical And Computer Engineering Beirut, Lebanon

AMERICAN UNIVERSITY OF BEIRUT Feb. 2018 - Aug. 2020

- Major Area: Artificial Intelligence and Machine Learning systems
- Minor Area: Software, Networking and Security
- Awarded Graduate Fellowship with full tuition coverage

Bachelor Of Eng. In Computer And Communication Engineering Zouk Mosbeh, Lebanon

NOTRE DAME UNIVERSITY - LOUAIZE Fall. 2014 - Summer 2017

- GPA: 3.58 Dean's List for 6 semesters

Skills

Python TensorFlow PyTorch Keras Bash Git CUDA
Parallel Programming C++ C# Matlab Java SQL LaTeX
VSCode