Bashar Talafha

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Summary_

I am currently a PhD student in the School of Information at the University of British Columbia (UBC). I'm supervised by Dr. Muhammad Abdulmageed. My broad research interests are in Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Sentiment and Social Media Analysis, Speech Technologies, and Multi-lingual/Multi-dialectal Information Processing. Previously, I earned a MSc and BSc degrees in Computer Science from Jordan University of Science and Technology. Before starting my PhD journey, I was a Sr. Data Scientist and NLU team leader in the Artificial Intelligence department at Mawdoo3 Ltd., Amman-Jordan. Before Mawdoo3, I was a Researcher and Machine Learning Engineer at Samsung Electronics, Amman-Jordan.

Education

UBC (University of British Columbia)

Vancouver, Canada

Ph.D. IN INFORMATION STUDIES

2021 - Present

• Focus on Deep learning for Speech Processing

JUST (Jordan University of Science and Technology)

Irbid, Jordan

MSC. IN COMPUTER SCIENCE

2014 - 2017

- Thesis title: Using Deep Neural Networks for Aspect-based Sentiment Analysis
- GPA: 90.3
- Rate: Excellent

JUST (Jordan University of Science and Technology)

Irbid, Jordan

B.S. IN COMPUTER SCIENCE

- 2010 2014 • Graduation Project: AllSpeak (Speech2Speech translator, OCR, Text Translator, TTS)
- GPA: 78.2
- · Rate: Very Good

Work Experience _____

Amman, Jordan

Mawdoo3 Ltd. NLU TEAM LEADER

2019 - Present

- Developing a plan for the Banking Conversation Assistant project that covers the entire cycle of the project from defining the project scope, deliverables, risks, and dependencies, then maps out a path to complete the project successfully.
 - Guide project execution (Agile)
 - Risk and Quality Management
 - Team Coaching
 - Code Review
 - Partnerships Establishing
- Ensure the business is prepared to adopt the change
- Candidates Interviewing
- Process Documentation
- Deliver based on requirements, on

time and on budget

• Manage and communicate changes by balancing project constraints.

SR. DATA SCIENTIST

- · Researching and innovating new Natural Language Processing (NLP) technologies based on machine learning and deep learning approaches for Arabic language.
 - Dialect Translation
 - Emotion Detection
 - Semantic Text Similarity
 - Language Modeling

- Profanity Detection
- Dialect Detection
- Voice Cloning
- Multi-task learning

- Sentiment Analysis
- Service Classification
- Paraphrasing

- Bulding different SOTA language models (ELMO, BERT, RoBERTa, etc.)
- Developing Docker images to support DevOps and Testing Teams in their pipelines.
- · Writing and publishing research papers.
- · Interviewing candidates.

SAMSUNG Amman, Jordan

SOFTWARE ENGINEER / MACHINE LEARNING 2016 - 2019

- · Explore areas to apply machine learning and deep learning models
 - Machine Translation

• Transfer Learning

Sequence Labeling

• Language Modeling

- Sequence Classification
- Apply different Word Embeddings techniques (GloVe, word2vec, fasttext, ElMo)
- Develop web crawlers and data preprocessing scripts.
- · Building a Microservices platform that presents all our AI-based components under one umbrella.
- · Writing two patents and two papers.
- Leading D2SLC team
 - Mentoring and training up juniors and new staff.
 - Arranging weekly team meetings, focusing on targets and achievements
 - Interviewing candidates
- Participating in giving lectures about Machine Learning and Data Science.

Jordan University of Science and Technology

Irbid, Jordan

2014 - 2016

RESEARCH AND TEACHING ASSISTANT

- Natural Language Processing.
- Knowledge Engineering Using Ontologies.
- Developing web crawlers (from forums and Twitter)
- Developing an Annotation tool for sequence labeling tasks.

MercyCorps (- NGOs Experience)

Irbid, Jordan

COMMUNITY LEADER IN MERCY CORPS' LEADERSHIP AND COMMUNITY DEVELOPMENT PROGRAM

2013 - 2014 & 2014 - 2016

Smart Vision Abu Dhabi, UAE

SOFTWARE ENGINEER

02/2014 - 09/2014

Outsource in Abu Dhabi Department of Finance (DOF), controlling and supporting the Time Attendance System using ASP.NET, ORACLE
and CRYSTAL REPORTS.

Minerets Tech. (- Training stage)

Amman, Jordan

SOFTWARE ENGINEER

10/9/2013 - 10/12/2013

In charge of converting the company's main product, a desktop-based route accounting system, into a rich Internet application (RIA) [Sencha Ext JS, JavaScript, CSS, C#, ASP.NET]

Patents

Method And Apparatus For Processing Language Based On Trained Network Model

USA 2020

US PATENT

• Application number: 15/929824

Multilingual translation device and method

USA

US PATENT

2019

• Application number: 16390317

Publications

[Under Review] Bench-marking and Improving Arabic Automatic Image Captioning Through The Use of Multi-task Learning Paradigm

Virtual Event

ARXIV PREPRINT

2022

Sarcasm Detection and Quantification in Arabic Tweets

Virtual Event

IEEE 33RD INTERNATIONAL CONFERENCE ON TOOLS WITH ARTIFICIAL INTELLIGENCE (ICTAI)

2021

ALUE: Arabic Language Understanding Evaluation Proceedings of the Sixth Arabic Natural Language Processing Workshop (WANLP)	Kyiv, Ukraine (Virtual) 2021
- NOCEEDINGS OF THE GIATITATION EN MORE EN MOR	2021
Multi-dialect arabic bert for country-level dialect identification	Barcelona, Spain
Conference: The 28th International Conference on Computational Linguistics (Coling2020)	2020
Unsupervised dialectal neural machine translation	
JOURNAL: INFORMATION PROCESSING AND MANAGEMENT	2020
Atar: attention-based LSTM for arabizi transliteration	
JOURNAL: INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING (IJECE)	2020
Mawdoo3 AI at MADAR Shared Task: Arabic Tweet Dialect Identification	Florence, Italy
CONFERENCE: ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (ACL 2019)	2019
Team JUST at the MADAR Shared Task on Arabic Fine-Grained Dialect Identification	Florence, Italy
Conference: Association for Computational Linguistics (ACL 2019)	2019
Mawdoo3 AI at MADAR Shared Task: Arabic Fine-Grained Dialect Identification with	Florance Halv
Ensemble Learning	Florence, Italy
CONFERENCE: ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (ACL 2019)	2019
Outperforming State-of-the-Art Systems for Aspect-Based Sentiment Analysis	Florence, Italy
CONFERENCE: IEEE/ACS 16TH INTERNATIONAL CONFERENCE ON COMPUTER SYSTEMS AND APPLICATIONS (AICCSA 2019)	2019
JUST at imageclef 2019 visual question answering in the medical domain	Lugano, Switzerland
CONFERENCE: CONFERENCE AND LABS OF THE EVALUATION FORUM (CLEF) 2019	2019
IoH-RCNN: Pursuing the Ingredients of Happiness using Recurrent Convolutional Neural	Hawaii, USA
Networks	,
Conference: AAAI 2019	2019
Using a Hierarchical Softmax Based on the Huffman Coding Tree for Authenticating Arabic Tweets	Abu Dhabi, UAE
CONFERENCE: IEEE/ACS 16TH INTERNATIONAL CONFERENCE ON COMPUTER SYSTEMS AND APPLICATIONS (AICCSA 2019)	2019
JUST at VQA-Med: A VGG-Seq2Seq Model	Avignon, France
Conference: Conference and Labs of the Evaluation Forum (CLEF) 2018	2018
Using long short-term memory deep neural networks for aspect-based sentiment analysis of Arabic reviews	
JOURNAL: INTERNATIONAL JOURNAL OF MACHINE LEARNING AND CYBERNETICS	2018
Aspect-Based Sentiment Analysis of Arabic Laptop Reviews	Yassmine Hammamet, Tunisia
CONFERENCE: THE INTERNATIONAL ARAB CONFERENCE ON INFORMATION TECHNOLOGY (ACIT) 2017)	2017
An Enhanced Framework for Aspect-Based Sentiment Analysis of Hotels' Reviews: Arabic Reviews Case Study	Barcelona, Spain
Conference: International Conference for Internet Technology and Secured Transactions (ICITST-2016)	2016

Using Big Data Analytics For Authorship Authentication of Arabic Tweets

CONFERENCE: 2015 IEEE/ACM 8TH INTERNATIONAL CONFERENCE ON UTILITY AND CLOUD COMPUTING (UCC)

Limassol, Cyprus

2015

CONFERENCE: 15TH INTERNATIONAL CONFERENCE ON KNOWLEDGE TECHNOLOGIES AND DATADRIVEN BUSINESS

Human Annotated Arabic Dataset of Book Reviews for Aspect Based Sentiment Analysis

Rome, Italy

CONFERENCE: 3RD INTERNATIONAL CONFERENCE ON FUTURE INTERNET OF THINGS AND CLOUD (FICLOUD 2015)

Honors & Awards

2021	Four Year Fellowships (4YF), UBC / Ph.D. Award / 2021-2025	Vancouver, Canado
2021	International Tuition Award, UBC / Ph.D. Award / 2021 - 2025	Vancouver, Canado
2021	President's Academic Excellence Initiative PhD Award, UBC / Ph.D. Award / 2021 - 2022	Vancouver, Canado
2021	R Howard Webster Foundation Fellowship, UBC / Ph.D. Award / 2021 - 2022	Vancouver, Canado
2020	1st place in the NADI shared task 1, Coling 2020	Barcelona, Spair
2019	2nd place in the MADAR shared task 2, ACL 2019	Florence, Italy
2019	3rd place in the MADAR shared task 1, ACL 2019	Florence, Italy
2019	4th place in the CL-AFF shared task, Affective Content Analysis workshop at AAAI 2019 conference.	Hawaii, USA
2018	Distinguished Employee Award , Samsung / Samsung Research and Development Institute (SRJO)	Amman, Jordar
2017	Best Project Award, Samsung / Samsung Research and Development Institute (SRJO)	Seoul, Kored
2013	Best Graduation Project Award, JUST / Faculty of Computer and Information Technology	Irbid, Jordar

Certifications

Deep Learning Specialization

Coursera

- Sequence Models
- Convolutional Neural Networks
- Structuring Machine Learning Projects
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- · Neural Networks and Deep Learning

Machine Learning A-Z™: Hands-On Python & R In Data Science

UDEMY

Skills_____

Research Skills: Academic writing using LATEX, research methodology, reviewing, recognising research problems, keeping up to date with the cutting edge and SOTA papers in the field.

Machine Learning - Tensorflow, PyTorch, Keras, Scikit-learn, R, Mahout, Weka, RapidMiner, Matlab,

Programing Languages - Python, JAVA, C/C++, C#

Web - HTML, Javascript, Flask, Django, Sencha EXTJS, PHP, ASP, CSS, Bootsrap, Wordpress

Others - GIT, Linux, Docker, OpenAPI, Jenkins, MySQL, SQLite, Oracle, Android, Windows Phone, Cross-platform, Adobe Flash, Adobe Dreamwaver, Adobe Photoshop, Adobe After Effects, Adobe Lightroom, Microsoft Office, Communication and Presentation skills

References__

References available upon request