Diala Lteif

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Research Interests

Machine Learning, Deep Learning, Computer Vision, Explainable AI.

Education

Boston University **Boston, Massachusetts, USA**
Ph.D. in Computer Science, GPA: 3.80/4.00 *Sept 2019 – Present*

American University of Beirut **Beirut, Lebanon**
BSc in Computer Science with distinction, major GPA: 4.00/4.00 *May 2019*

Honors and Awards

Grace Hopper Celebration Conference Award, Boston University *2020*

Dean's Honor List, American University of Beirut *2016-2019*

First Place Winning Team in the ACM Lebanese Collegiate Programming Contest 2017, Beirut, Lebanon *2017*

Fifth place winning team over Lebanon in the IEEExtreme Programming Competition *2017*

Research Experience

Boston University **Boston, Massachusetts, USA**
Research fellow, with Prof. Bryan Plummer *2020 – Present*
Working on cross-layer parameter sharing for knowledge transfer and resource-efficient on-device machine learning

Boston University **Boston, Massachusetts, USA**
Research fellow, with Prof. Sarah Adel Bargal *2020 – Present*
Working on explainable AI for resource-efficient anytime inference of convolutional neural networks

Industry Experience

PinPay SAL, Beirut Digital District **Beirut, Lebanon**
Intern *Aug 2018 – Sept 2018*
Worked on Amazon Alexa, Google Assistant services and front-end web development

Teaching Experience

Boston University **Boston, Massachusetts, USA**
Teaching fellow *AY 2019-2020*
- CS330: Introduction to Algorithms (Spring 2020)
- CS103: Introduction to Internet Technologies and Web Programming (Fall 2019)

Future Developer Summer Camp, American University of Beirut **Beirut, Lebanon**
Instructor *July 2018*
Taught Unity and iOS development to students between the ages 12 and 18

S.A.S Tutoring Center **Beirut, Lebanon**
Instructor *Feb 2017 – May 2017*
Taught high-school level Biology, Chemistry, and Physics classes

Selected Graduate Coursework

CS542: Machine Learning

CS640: Artificial Intelligence

CS535: Complexity Theory

CS552: Operating Systems

CS511: Formal Methods

Projects

Boston University

CS542 Final Project: Image Classification on Covid-19 X-rays *2020*

Implemented binary and multi-class classification using VGG and ResNet backbone architectures in Keras on a Covid-19 X-ray dataset.

Boston Unversity

CS640 Final Project: Facial Expression Analysis Based on Videos of Presidential Candidates *2019*

Worked with classmates to extend existing state-of-the-art deep convolutional neural networks for sentiment analysis on video clips of the 2020 Democratic Presidential candidates.

American University of Beirut

Undergraduate Final Year Project: Emotion Recognition in an Uncontrolled Environment *2019*

Created an Android Application that predicted users' emotional state based on collected readings from ShimmerV3 Biophysical sensors and user self-assessment (in collaboration with the Psychiatry Department at AUBMC)

Skills

Languages

Python, Java, C#, C/ C++, Javascript, SQL

Relevant Tools

Tensorflow, Keras, PyTorch, tensorboard, wandb.ai

Professional Activities

BU ACM-W student chapter, Boston University **Boston, Massachusetts, USA**

Graduate Student Advisor *FY 2020-21*

coordinate the mentorship program and advocate for full engagement of women in computing and technology

Club of Artificial Intelligence, American University of Beirut **Beirut, Lebanon**

Treasurer *Nov 2017 – May 2018*

a club that revolves around Artificial Intelligence, Machine Learning, and Data Mining

ACM Arab Collegiate Programming Competition 2017 **Egypt**

Contestant *Nov 2017*

Competed and teamed with fellow AUB students in the 9th Arab Collegiate Programming Competition and ended up in the 31^{st} place in the MENA region out of 104 participating teams

References

Available upon request.