Omar Abdelwahab

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Objective: Seeking a full time position in software engineering, data science research, and machine learning. Experienced in performing various machine learning methods including regression, classification, and clustering on various data sets.

Research Experience:

NLP Researcher (Ph.D Candidate), Computer Science and Engineering — Aug 2016-Present

- Research point: Domain adaptation for sentiment analysis.
- Worked as a research assistant on a Kindred Healthcare project to build a mobile app for compliance tracking (Fall 2016).

NLP/Machine Learning Intern – 3M — May 2017-Aug 2017

- Applying Machine Learning algorithms on challenging data sets.

NLP Engineer Intern – Medstreaming — Jan 2017-April 2017

- Clinical Natural Language Processing using Python.

Graduate Assistant (Ph.D Student), Computer Science and Engineering — Jan 2014-Aug 2016

- Research point: Domain adaptation for sentiment analysis.
- Worked on giving study group sessions for C++.

Graduate Assistant (MS Student) — Fall 2012-Fall 2013

- Graded data structures home works.

Professional Experience

Junior Software Engineer – ***Valeo*** — Sept 2011-Aug 2012

- Valeo is a major French Automotive Supplier.
- Performed unit testing and validation testing.

Research Intern – ***IBM Human Language Technologies Group*** – Cairo,Egypt — Feb 2014 – May 2014

- Worked on text mining research projects /text feature selection/ sentiment analysis (NLTK-Python)

Previous Accomplishments

- Built a twitter sentiment analyzer used in experimenting the effect of training set size on the accuracies of SVM and Naïve Bayes classifiers.
- Developed an image classification system using deep features. (tools used: IPython and Graphlab)
- Organized and helped in starting a summer program at speed school called Speed Up that helps speed school students in transforming their ideas into MVPs and prototypes in 2 months. (speedupky.org)

Education

PhD in Computer Science and Engineering, ***Speed School of Engineering - University of Louisville***

- Anticipated Graduation: December 2017

MSc in Computer Science, ***Speed School of Engineering - University of Louisville*** Dec 2013

BSc in Computer Engineering, ***Faculty of Engineering, Cairo University*** May 2010

Certificates:

- **Machine Learning Specialization:** by University of Washington on Coursera. Certificate (May 2017). The Machine Learning Specialization consisted of four courses, ML foundations, Regression, Classification, and Clustering & Retrieval.

Selected Skills and Tools: C++, Python, NLTK, Deep Learning (Torch 7), Spark, Kali Linux.

Published Research:

- "Evolution of a Metaheuristic for Aggregating Wisdom from Artificial Crowds – EPIA 2015".
- "Effect of Training Set Size on SVM and Naïve Bayes for twitter sentiment analysis – ISSPIT2015".
- "Multi Domain word2vec for Twitter Sentiment Classification"-SEMEVAL– NAACL 2016 workshop.