12, 19th Street, Wadi Hoff
Cairo, Egypt (11733)
(+20) 122 559 34 84
☎ (+20) 2 369 08 77
✉ ahmed.ismail.zahran@gmail.com
ai-zahran.github.io
in ahmed-ismail-zahrana

Ahmed Ismail

Education

Mar.–Jul. 2018 **Udacity**, *Deep Learning Nanodegree*.
Took deep learning classes and built machine learning projects using various types of deep learning models.

Jan. 2017–Present **M.Sc in Computer Science**, *Cairo University*, Faculty of Computers and Information, Computer Science Department.
Preparing M.Sc in computer science, with a main interest in machine learning and computational linguistics.

Sep. 2012–May. 2016 **B.Sc in Computer Engineering**, *Cairo University*, Faculty of Engineering, Computer Engineering Department.

- **Graduation Project**: **"Animtractor"**, a marker-less, non-"depth camera"-assisted system for motion capture. The project won first place in the Microsoft ImagineCup's 2016 national finals (Innovation track).
- Participated in preparing coursework for cloud computing in "CMP303B - Distributed Operating Systems", including programming assignments on Microsoft Azure, which became a standard part of the course.
- Participated in preparing coursework for a summer training program on cloud computing.
- Served as an Academic Committee Member in IEEE, Cairo University Student Branch. My position involved preparing written material and reports for IEEE's activities.
- After graduation: Worked as a TA in "CMP302 - Advanced Algorithms" with Dr. Mayada Hadhoud.

Experience

Apr.–Aug. 2018 **Google Summer of Code Student**, *Distributed Red Hen Lab*.
Worked on two projects involving Arabic speech processing:

- An Arabic speech recognition system for broadcast speech data. *Tools used: Kaldi and VariKN.*
- An Arabic dialect identification system. *Tools used: Kaldi, Scikit-learn and Keras.*

My mentors were Professor Mark Turner from Case Western Reserve University, Professor Ahmed Abdel-Fattah from Ain Shams University, and Michael Pacchioli.

Nov. 2017–Present **Research Assistant**, *Cairo University*, Faculty of Engineering.
Working on project **Senteech**, a collaborative project with Datalplus.me. Senteech assists customer service quality teams through locating calls that include angry speakers, using speech emotion classification. The principal investigator for Senteech is Professor Mohammed Nafie. My contributions included building a pipeline that performs audio processing, feature extraction, training and classification, and researching methods to improve classification accuracy. *Tools used: Scikit-learn, Tensorflow and openSMILE.*

Sept. 2016–Aug. 2017 **Researcher**, RDI *Egypt*.
Worked on project **Hafss**, a speech verification system for teaching the Hafss recitation method of the Holy Quran. Introduced improvements to the system's recognition accuracy through increasing the size of the training data. Other contributions included developing .NET toolkits for the linguistics and data entry team, fixing bugs in the lattice generation toolkit and writing various scripts to facilitate the experimentation process. *Tools used: Kaldi, C++, Python and C#.*

Skills

Advanced: C, C++, Python, Keras, Tensorflow, Scikit-learn, Kaldi
Basic: JAVA, SQL

Languages

Arabic (native) and English (proficient).