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Ahmed Ismail

Work Experience

Nov. 2020–Present **Natual Language Processing Engineer**, *Agolo*.
- Working on text summarization technology.

Mar. 2019–Oct. 2020 **Data Scientist**, *DataPlus*.
- Built interactive dashboards and workflows for ETL and predictive analytics.
- Tools used: Tableau and Alteryx.

Apr.–Aug. 2018 **Google Summer of Code Student**, *Distributed Red Hen Lab*.
- Worked on two projects involving Arabic speech processing:
  - An **Arabic speech recognitio**n system for broadcast speech data.
  - An **Arabic dialect identification** system.
- *Tools used: VariKN, Kaldi, Scikit-learn, and Keras.*

Nov. 2017–Nov.2018 **Research Assistant**, *Cairo University*, Faculty of Engineering.
- Worked on **Senteech**, a project for assisting customer service quality assurance teams through locating calls that include angry speakers, using **speech emotion classification**.
- Built a pipeline for 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 **Machine Learning Researcher**, RDI *Egypt*.
- Worked on project **Hafss**, a **speech verification** system for teaching Holy Quran recitation.
- Improved speech recognition accuracy through increasing the size of the training data and experimenting with different machine learning models.
- Developed .NET toolkits for the linguistics and data entry team.
- Participated in enhancing the lattice generation toolkit.
- *Tools used: Kaldi, C++, Python and C#.*

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.
Preparing M.Sc in computer science, with a main focus on machine learning and computational linguistics.

Sep. 2012–May. 2016 **B.Sc in Computer Engineering**, *Cairo University*, Faculty of Engineering.
- **Graduation Project**: **"Animtractor"**, a marker-less, non-"depth camera"-assisted system for motion capture. The project won first place in Microsoft ImagineCup's 2016 national finals (Innovation track).
- Participated in preparing coursework and summer training for cloud computing in "CMP303B - Distributed Operating Systems".
- 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".

Skills

Languages: C++, Python, Java, SQL, Bash.

Tools and Libraries: Keras, Tensorflow, Scikit-learn, Kaldi, Tableau, Alteryx.

Languages

Arabic (native) and English (proficient).