

Omar Essam

Artificial Intelligence
Research Engineer

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Technical Skills

Artificial Intelligence

Development

Development of De-Identification engine
Interpretation of unstructured text using entity and relation extraction

Research

Interpretation of unstructured text

Skills:

- Machine/Deep learning
- NLP
- The Python data science stack

Education

Bachelor's Degree in Computer Engineering

Ain Shams University
2012 - 2017 | Cairo, Egypt

Experience

August 2018 - **Artificial Intelligence Research Engineer**

Mendel.ai

Present

- Work on real world clinical data from data providers to produce knowledge from unstructured text
- Research and development of a state of the art medical text de-identification engine
- Research in entity and relation extraction for the sake of building knowledge representation and interpretability out of unstructured text
- Experienced crowd sourcing of annotations and evaluation of the crowd
- Collaboration with physicians, oncologists, pharmacists, and vets in order to produce AI based solutions that can infer knowledge from text

July 2012 - **Freelancer**

Upwork

Present

- Various NLP APIs using state-of-the-art transformers like (BERT, T5,) implementing text classification, document similarity, question answering, and text summarization
- Text classification projects (NLP)
- Stock market prediction using Machine Learning models (Random forests, SVM, XGBoost, ...)
- Data collection using Web scrapers and APIs
- Various projects in web development.

June 2016 - **Data Science Intern**

Cognitev

October 2016

- Worked as a data scientist throughout the summer learning and applying knowledge onto the company's problems.
- Product linkage (Clustering, text similarities, classification)
- Aspect Oriented Sentiment Analysis (Recursive neural tensor networks using CoreNLP)
- Image classifiers (Convolutional neural networks)
- Data collection through different sources and standardizing and cleaning to produce pure usable data sets

Projects

August 2016 - **Arabic and Multilingual NER**

June 2017 Graduation Project

- Experimented with different Arabic NER model and built a suitable model from an Engineering point of view and an NLP point of view.
- Experimented with different methods to have a Multilingual model that solves the task for both Arabic and English

July 2017 - **Kaggle Competitions**

Kaggle

- Competed in various Kaggle competitions and reached top 20 contenders.