

# Mohamed Atia Radwan

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## EXPERIENCE

### ZALANDO SE APPLIED SCIENTIST

May 2018 - Present | Berlin, DE

- Develop ABC
- Develop XYZ
- Develop JKL

### COGNITEV DATA SCIENTIST

Dec 2015 - Nov 2017 | Cairo, EG

- Design and build AdRelated.com, a semantic advertisement system. AdRelated models optimization and large scale parameters selection using FGLab.
- General Arabic articles classifier to IAB categories.
- Build Semantic Click Through Rate optimization module.
- In-Domain NER system: Design, data annotation system, bootstrapping, and implementation.
- Research and implementation of models and neural nets for: multilingual ads matching, multilingual words embedding, and embedding products.
- Design and build generic website crawlers and scrapers to be used as training data.

### DFKI RESEARCH ASSISTANT IN SEMANTIC TEXT COMPOSITION PROJECT

Sept 2014 - May 2015 | Kaiserslautern, DE

- For a user writing an article, entities suggestions was enhanced and scored according to the context he wrote them in. A score to each suggested entity was calculated using different methods like: Graph search, Entity embedding from text using Word2vec, and Entity embedding using Knowledge Graph embedding.

### NILE UNIVERSITY RESEARCH ASSISTANT IN [TRAFFISENSE]

Jan 2014 - Sept 2014 | Cairo, EG

- Optimizing the compressive tracking algorithm for performance, improved the reinforcement phase between the recognition of cars and tracking them.
- Develop an automatic car plates recognition system.

### INESC-ID RESEARCH ASSISTANT IN [MAIS+S] : MULTI-AGENT

INTELLIGENT SURVEILLANCE SYSTEM

Jan 2014 - Sept 2014 | Cairo, EG

- Develop a WIFI localization algorithm for indoor location estimation, the algorithm used LSE for estimation based on RSSI signal and access points pre-identified parameters (descriptor, antenna gain, power...).

## PUBLICATIONS

**Neural Networks Pipeline for Offline Machine Printed Arabic OCR.** Neural Process Letters 48, 769–787. 2018.

**Predictive Segmentation Using Multichannel Neural Networks in Arabic OCR System.** ANNPR 2016: Artificial Neural Networks in Pattern Recognition. 2016.

## SKILLS

### PROGRAMMING

Over 10K lines:

Python • Scala • Spark

Over 1000 lines:

Java • Matlab • R •  $\text{\LaTeX}$

Familiar:

Haskell • Shell • ROS

### ML TOOLS

Airflow • TensorFlow • SciKit Learn

### CLOUD SERVICES

AWS • Databricks • SageMaker

• Google App Engine

## EXTRA COURSEWORK

### UC BERKELEY - ONLINE COURSE

FULL STACK DEEP LEARNING

Spring 2021 - [Certificate]

## EDUCATION

AIN SHAMS UNI

MSC IN COMPUTER SCIENCE

Sept 2013 - Apr 2017 | Cairo, EG

IST LISBON

EXCHANGE STUDENT

MSC IN COMPUTER SCIENCE

Sept 2012 - Sept 2012 | Lisbon, PT

MANSOURA UNI.

BS IN COMPUTER ENGINEERING

2005 - Sept 2010 | Cairo, EG