

# Rawan Essam

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## EDUCATION

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**Master of Computer Science** Expected Graduation: July 2023  
Arizona State University, Online GPA: 3.9

**Bachelor of Science** August 2020  
Nile University Giza, Egypt with honors, Giza, Egypt GPA: 3.5

- Graduation Project: A

## WORK EXPERIENCE

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**Artificial Intelligence Researcher**, Ministry of Communication and Information Technology Giza, Egypt October 2021 - Present

- Create different NLP projects for Egyptian Colloquial Arabic such as specialized chatbot and morphological analysis using Rasa and Tensorflow
- Conduct research of possible use cases of artificial intelligence in different governmental sectors
- Meet with domain experts to brainstorm possible AI applications and translate them into technical requirements
- Generate reports and insights on AI technologies for decision makers
- Led AI projects and proof of concepts with other team members
- Create technical insight and recommendations on proposed projects

**Ai Instructor**, Information Technology Institute, Cairo, Egypt April 2021 - January 2022

- Taught students fundamentals of Python for AI including libraries including Pandas, CSV, beautifulsoup and more
- Designed practical exercise to familiarize students with real life applications
- Grade and provide feedback on assignments and quizzes
- Instructed offline and online practical tutorials

**Data Engineer**, Badgewell, Inc. Giza, Egypt, Giza, Egypt June 2021 - October 2021

- Designed and implemented pipelines for data of various sources
- Clean and prepare data for Badgewell's international clients
- Performed data mapping and integration using Python, Pandas, Pyspark and SQL
- Performed data quality check and provide metadata reports

**Machine Learning Intern**, UN-ESCWA- Technology Center, online December 2020 - March 2021

- Collected data on entrepreneurship ecosystem in Egypt and the MENA region
- Provided statistics and insights on the ecosystem through Natural Language Processing, and data visualization
- Built a web scraper to collect related news

**Machine Learning Intern**, WINC Research Center, Nile University, Giza, Egypt June 2020 - August 2020

- Collected and cleaned datasets on COVID-19 statistics
- Developed a machine learning model to predict COVID-19 spread using Scikit learn and time series analysis

**Junior Teaching Assistant**, Nile University, Giza, Egypt February 2017 - July 2017

- Taught younger students understand programming fundamentals
- Conducted one on one tutorial for students when needed
- Designed and graded practical exercises, projects and exams to assess students

## **SKILLS**

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- Python
- Data Analysis and Statistics
- Machine Learning
- Data mining
- Data Visualization
- Natural Language processing
- Web-scraping
- SQL
- Knowledge Representation and Reasoning
- Scientific Research and writing

## **CERTIFICATIONS**

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Natural Language Processing with Classification and Vector Spaces

June 2022

Coursera, DeepLearning.AI

- Learned about the fundamentals of NLP
- Practiced applying data extraction and preparation
- Studied important statistical and machine learning techniques for NLP
- Built hands on NLP projects such as machine translation

Training the Trainers program [in Artificial Intelligence]

December 2020

L'Ecole des Ingenieurs en Intelligence (EPITA)

- Studied EPITA's teaching methodologies in the field of AI
- Focused on latest technologies in machine learning, deep learning, reinforcement learning, recommendation systems

Advanced Data Analysis Nanodegree

January 2021

Udacity

- Studied and applied practical statistical methods
- Completed hands-on projects encompassing multiple data analysis concepts and techniques using Python, Pandas, Numpy, Matplotlib and Seaborn

## **LANGUAGES**

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- Arabic: Native
- English: Fluent