ISMAIL AKROUT

Software engineer and Artificial Intelligence researcher

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SKILLS

- **Software:** Anaconda, Jupyter notebook, Intellij
- **Programming languages**: Python, C, C++, Java, Javascript
- **Artificial Intelligence**: TensorFlow ,Keras ,OpenCV ,computer vision ,RNN ,CNN
- **Methodologies**: Scrum,CRISP-DM

CERTIFICATION

- **IBM Quantum Challenge**: IBM
- **QTM2x: The Hardware of a Quatum Computer**: edX
- **Machine Learning with Python-From Linear Models to Deep Learning**: MITx on edX
- **Fundamentals of Statistics**: MITx on edX
- **Probability - The Science of Uncertainty and Data**: MITx on edX
- **Deep Learning Specialization by deeplearning.ai**: Coursera
- **Using Databases with Python**: Coursera
- **Programming For Everybody (Getting Started With Python)**: Coursera
- **Python Data Structures**: Coursera
- **Using Python to Access Web Data**: Coursera

PERSONAL PROJECTS

Traffic sign detection and analysis

- component for self driving car
- pytorch

Tunisian stock market flow monitoring tool

- scrapping and cleaning data to prepare for deep learning models
- elastic search bandle, django, bash programming

LANGUAGES

Arabic : native speaker

English : very good command

French : near native

EXTRACURRICULAR

- **SECURINETS : First national association for cybersecurity in Tunisia:**
  member(2014-2016) :
  -organizing events
  -paticipation in security challenges
  Head of technical team (2016-2017):
  - managing a team of multiple members preparing workshops and tutorials for securiday, the tunisian cyber security day
  Head of ctf team(2017-2018):
  - managing a team of multiple members preparing the ctf challenge
  Advisor(2019-present):
  - providing help and guidance for new heads of teams in the organization
- **Tunisian association of health and environment:** Volunteer

PROFESSIONAL EXPERIENCE

Research Assistant

Institut Louis Bachelier

📅 September 2020 - present   📍 Paris,France

- Working on bias mitigation and fairness in artificial intelligence's algorithms.
- Designing bias-free multi-sided platform and recommendation system.

Teaching Assistant

National Institute of Applied Sciences and Technology

📅 September 2019 - December 2019   📍 Tunis,Tunisia

- Teaching the deep learning and reinforcement learning course.
- Support the design of the programming assignments

Research assistant intern

Télécom Paris-Tech

📅 February 2019 - August 2019   📍 Paris,France

job offers classification tool

- Classification of job offers using unsupervised learning based on RNN autoencoders data representation
- Creating an infrastructure to clean the data and store it, asynchronously.
- Approximate the data distributions using multivariate Gaussian mixture.

Artificial intelligence research intern

ankor.ai

📅 June 2018 - September 2018   📍 Toronto,Canada

Hacking Google reCAPTCHA v3 using Reinforcement Learning

- paper published in RLDM 2019
- Trained Reinforcement Learning agent to bypass reCaptcha v3 bot test
- Developed an environment to interact with reCAPTCHA system

full stack web development intern

telecom paris-tech

📅 June 2017 - September 2017   📍 Paris,France

dashboard for financial data visualization

- Django developer
- React developer

EDUCATION

Institut Polytechnique de Paris

Master 2 MICAS program Machine learning, Communications and Security

📅 2020-present   📍 Paris, France

MITx

MIT Statistics and Data Science MicroMasters

📅 2018-2019   📍 Online

National Institute of Applied Sciences and Technology

major : Software engineering / minor : Data science and data engineering

📅 2014-2019   📍 Tunis,Tunisia

Tinja High School

baccalaureate in mathematics (with honors)

📅 2014   📍 Bizerte,Tunisia