

Ismail AKROUT

Researcher & Machine Learning Enthusiast

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EDUCATION

2020 – Present	Institut Polytechnique de Paris (IPP) MASTER 2 MICAS PROGRAM <i>Machine learning, Communications and Security</i>
2018 – 2019	MITx MIT STATISTICS AND DATA SCIENCE MICROMASTERS
2014 – 2019	National Institute of Applied Science and Technology (INSAT) BACHLOR OF ENGINEERING <i>Specialization: Data science</i> GRADUATED WITH HIGH HONORS
2010 – 2014	Lycée Tinja HIGH-SCHOOL DIPLOMA GRADUATED WITH HIGH HONORS

IT SKILLS

Programming	C++, PYTHON
Softwares and tools	<i>Big Data:</i> Hadoop, Spark <i>SCM:</i> Git, SVN <i>Unix System Administration</i>

COMMUNICATION SKILLS & HOBBIES

Languages	<i>Arabic</i> : Native <i>English</i> : Fluent <i>French</i> : Fluent
Associations	Securinets Technical Manager and CTF challenges Manager, Co-lab INSAT advisor
Hobbies	Violin and piano practice, e-sports

CERTIFICATIONS & DISTINCTION

July 2019	RLDM 2019 Travel Grant Award <i>800€ Scholarship</i>
2017 - Present	Multiple Online Certificates <i>MITx, Courseras, IBM quantum challenges</i>

PROFESSIONAL EXPERIENCES

SEPTEMBER 2020 – PRESENT

Research Assistant | *IBT, France*

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

SEPTEMBER 2019 – DECEMBER 2019

Teaching Assistant | *INSAT, Tunisia*

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

FEBRUARY 2019 – AUGUST 2019

Graduation Internship | *Télécom Paris-Tech, France*

- 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.

PUBLICATIONS

Hacking Google reCAPTCHA v3 using Reinforcement Learning | *RLDM 2019*

*Ismail Akrouit**, Amal Feriani, Mohamed Akrouit. [Paper]

- Trained RL agent to bypass reCaptcha v3 bot test
- Developed an environment to interact with reCAPTCHA system

ACADEMIC PROJECTS

OCTOBER 2018 – NOVEMBER 2018

Finance class: **Cap-Fix log analyser**
INSAT, Tunis, Tunisia

- Extracting **Cap-Fix** Log from Trading center log files, using **BASH** scripts to minimise parsing time.
- Visualising log data using **ELK stack**: Elasticsearch, Kibana, Logstash.