



# Ismail EZZAKI

MASTER STUDENT · FREELANCER PROGRAMMER

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*"be the change you want to see in the world"*

## Education

### M.Sc. in High energy physics and astronomy and computational physics

CADI AYYAD UNIVERSITY

Oct. 2018 - Dec. 2020

- **Specialty:** High energy physics and computational physics
- **Rank:** 1<sup>st</sup> in class
- Depth knowledge in high energy physics and subatomic physics
- learned to resolve physics problems by computing

### B.Sc. in Physics

IBN ZOHR UNIVERSITY

Oct. 2017 - Aug. 2018

- got fundamental knowledge in general physics

### Diploma of General University Studies in Science of Material Physics

IBN ZOHR UNIVERSITY

Oct. 2014 - Aug. 2017

## HEP projects

#### DRELL-YAN TO DIMUON SIMULATION USING GAN

- Train a GAN neural networks to produce Drell-Yan to dimuon events in conditions that replicate the proton-proton collisions at Large Hadron Collider and the CMS detector

#### ANALYSIS OF HIGGS BOSON IN THE FOUR-LEPTON FINAL STATES

- Reproduce the full analysis of the discovery of the Higgs boson using the 2011 and 2012 datasets, in the four-lepton final states

#### KAGGLE'S HIGGS BOSON MACHINE LEARNING CHALLENGE

- Explore the potential of advanced machine learning methods to improve the discovery significance of the ATLAS experiment

## Certifications

- 2021 **Data Science Specialization**, Johns Hopkins University Coursera
- 2020 **Bayesian Statistics: From Concept to Data Analysis**, University of California, Santa Cruz Coursera
- 2020 **Deep Learning Specialization**, Deeplearning.ai Coursera
- 2019 **Machine Learning Specialization**, Washington University Coursera

## Skills

- DevOps** ROOT, Pythia, Tensorflow, scikit learn
- Programming** C++, Python, JAVA
- Technologies** Git, inux (Debian), Monte Carlo Simulation,  $\LaTeX$
- Soft Skills** Team working, Problem solving, Fast learning ability

## Experience

### Programmer

FREELANCER

Jan. 2013 - PRESENT

- Developing Android applications using Java
- Developing machine learning modeles using Tensorflow and Python

## Languages

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**English** level C1  
**Frensh** level B2  
**Arabic** native speaker

## Extracurricular Activity

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### Voluntary work

MOHAMMED 6 DISABILITY ASSOCIATION

Mar. 2018 - Jun. 2018

- Volunteered for two months in Mohammed *IV* disability association

### Member of Enactus club

ENACTUS CLUB OUARZAZATE

Sep. 2016 - Jun. 2018

- Successfully spearheaded a team of 50 students to conduct entrepreneurial endeavors from inception to completion
- Developed a project of filter water to a rural area

## Extra Interests

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Project Euler ,Web & mobile development

## References

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### Mustapha Oulne,

- Univerity teacher
- My master coordinator
- [oulne@uca.ac.ma](mailto:oulne@uca.ac.ma) ✉

### Mohamed Chabab,

- Univerity teacher
- My master thesis supervisor
- [mchabab@uca.ac.ma](mailto:mchabab@uca.ac.ma) ✉

### Abderrahim Adahchour,

- Univerity teacher
- My master teacher
- [adahchour@uca.ac.ma](mailto:adahchour@uca.ac.ma) ✉

### BEL KASSMI Youssef,

- Assistant university teacher
- My bachelor thesis supervisor
- [y.belkassmi@gmail.com](mailto:y.belkassmi@gmail.com) ✉