



# Mahdi Cheikhrouhou

## Etudiant



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### About me:

A motivated student with a solid background in mathematics and computer science. I really enjoy solving problems using algorithms and data structures for fun and in competition. I'm also interested in artificial intelligence and machine learning, which is why I sometimes do related projects to find out more. I always want to learn something new and never give up until I reach my goal. My professional project is to work in the field of artificial intelligence and data science.



### Studies:

- Engineering degree in advanced techniques 2019 - Present
  - ENSTA Paris - ENIT
  - Multidisciplinary education with a major in AI
- Pre-engineering diploma in mathematics-physics 2017 - 2019
  - IPEIS
  - Solid formation in mathematics and physics
  - Ranking 2/1300 in the national exam
- Bachelor of Mathematics 2016 - 2017
  - Magida Boulila Sfax high school
  - Mention very good



### Experiences:

- Teaching online: 2021 - Present
  - Once a week, I teach advanced algorithms and data structures for Tunisian students and pupils
- Research internship at CentraleSupélec Campus of Metz Summer 2021
  - The goal of the internship is to optimize the parameters of dynamic neural fields (DNF) using Pytorch. [link](#)
- Worker internship at Tunisia Telecom Sfax August 2020
  - The purpose of the internship is to become familiar with professional life



### Projects:

- Solving games with the Simplex method using julia Academic
  - The project consists in modeling the games in linear problems and to implement the constraints with the julia language. [link](#)
- Reinforcement Learning Project Personal
  - We used python and unity to create an agent able to play Flappy Bird. [link](#)
- Genetic Algorithm Project Academic
  - I used a genetic algorithm to solve an NP-Complete. [link](#)



### Skills:

- Programming:
  - C++, C, Java, Python, Julia, Bash
- Machine learning:
  - Pytorch, TensorFlow, scikit learn, open cv
- Languages:
  - Arabic, French, English



## Clubs and Associations:

- Active member in the competitive programming community in Tunisia
- Active member of the Fablab ENIT robotics axis in the year 2019/2020
- President of the Competitive Programming Club at IPEIS in the year 2018/2019
- Member of a musical group as a guitarist in high school



## Awards and distinctions:

- 1st place of Tunisia in the competition of collegiate programming Tunisian TCPC2020
- 2nd place for Tunisia and 51/4000 in the world in the IEEEExtreme 14.0 (2020) programming competition
- 7 / 1500 place at the Challenge ACPC kickoff 2020 (silver medal)
- 2nd place for Tunisia and 75/4000 in the world at the IEEEExtreme 13.0 programming competition (2019)
- 3rd place for Tunisia in the collegiate programming competition



## Networks:

- Personal web page: <https://mtaylorr.github.io/>
- LinkedIn: [mahdi-cheikhrouhou-b7b949155](#)
- GitHub : [Mtaylorr](#)