



ACHRAF AIT SIDI HAMMOU

RESEARCH INTERNSHIP

SKILLS

Data Science

- Python, OOP, R
- Pytorch, Scikit learn, pandas, seaborn

Web Development

- Backend: NodeJS, GraphQL, Flask, Firebase, MongoDB, MySQL
- Frontend: React, NextJS, GatsbyJS, React Native, D3
- DevOps: Docker, CI/CD
- Design, Web Scraping

Miscellaneous

- English - fluent (C1)
- Git / Github
- C++
- Matlab
- Project management

CONTACT

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Github

[github.com/achrafash](#)

EDUCATION

ENSTA Paris - Applied Mathematics | 2019 - 2022 | 4.0 GPA

- One of the Top 10 French Engineering School, ENSTA is renowned for its research and academic excellence.
- Linear Algebra, Calculus, Topology, Differential Equations, Optimization, Statistics, Probability, Stochastic Calculus, HPC.

Preparation class to enter top Engineering Schools | 2016 - 2019

- Advanced fundamentals in Algebra, Calculus, Topology and Physics.

Medical School | 2015 - 2016

EXPERIENCES

• Research Internship | summer 2020

Evaluating **image captioning models in the artistic domain** (SemART, BibleSVA):

- state-of-the-art model reproduction (VGG19, embeddings, Sequence-to-sequence, contrastive loss, attention mechanism)
- model evaluation (BLEU, BLEURT)

• Freelancing in Web Development | June 2020 - March 2021

- Developed an online platform for virtual role-play interviews for Paris Medical University.
- Developed a platform to host a virtual event for a luxury brand in the cosmetic industry.
- Developed a LinkedIn scraper for a job-hunting agency.
- Developed a proof-of-concept for a startup in the food-tech industry.
- Designed and developed a mobile application as well as a back-office for an independent travel planner.
- Designed and developed a marketing website for an early-stage startup.

PROJECTS

Von Karman Simulation | Summer 2020

Modeling and simulation of Von Karman vortex in fluids with Matlab.

Genetic Algorithm in Python | April 2020

Implementation in Python of a Genetic Algorithm with different techniques.

Shape from Shading in C++ | February 2021

Estimating 3D shapes by observing shades in 2D images (LBFGS algorithm).

Team project with the French Navy | November 2021 - Today

I investigate Machine Learning approaches to solve the following problem:
How to infer the destination port index (ex: FRBES for the port of Brest in France) of sailors based on their unstandardized inputs?
The methods I have studied so far include RNN, Word2Vec and Transformers.

Personal projects | 2020 - Today

- COVID application with data visualization and API of the French data.
- A fintech mobile application, a time-tracking tool, a content curation application, a cohort-based courses platform, and more.

COMMITMENTS

Early-member/co-founder of ENSTARTUP | 2019 - 2020

The very first association promoting Entrepreneurship at ENSTA through:

- interviews with alumni founders
- pitch competitions
- newsletters (fintech, research)
- workshops and hackathons

Secretary-General - TAEP Junior-Enterprise | 2020

- Secretary tasks, in charge of data privacy and GDPR compliance
- HR - recruiting consultants and administrators
- Elaborating the strategy and tracking the activity with tools and metrics