ACHRAF
AIT SIDI HAMMOU

R E S E A R C H A S S I S T A N T

Tech savvy. Life long learner. Big consumer of books and podcasts, I like overthinking everything.

SKILLS

Data Science
• Pytorch for Deep Learning (CNN, RNN, Transformers, Data processing)
• Scikit learn, pandas, seaborn, R

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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EDUCATION

ENSTA Paris - Applied Mathematics | 2019 - 2022

One of the top 10 French Engineering School. ENSTA is reknowned for research and academic excellence.
Syllabus: Linear Algebra, Calculus, Differential Equations, Optimization, Statistics, Probability, Time Series, Stochastic Calculus.

Preparation class to enter top Engineering Schools | 2016 - 2019

Advanced fundamentals in Algebra, Calculus, Topology, Probability 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 B2B and B2C proof-of-concept for a startup in the food-tech industry.
- Designed and developed a mobile application and 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 surfaces of objects from 2D images by observing the shades.

• Engineering project in Team | 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