

About me

Fond of new technologies, I am looking for a job in machine learning field. In my life, a lot of my time cooking and doing sport (hiking, powerlifting, mixed martial arts).

Contact Information

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Skills

- · Machine learning
- Deep Learning (Tensorflow, Pytorch)
- Symbolic Al (research) algorithms, constraint programming, fuzzy logic)
- · Big data, data visualization
- Natural language processing, images processing.
- Human factors, user experience (UX)
- Programming languages: C++, C#, Javascript, Matlab, R, Python, SQL
- · Other: Git, Unity, SCRUM agility

Other

- M French (native), TOEIC (895 points)
- A Driving license
- A https://fabiencouthouis.github.io
- · in /fabien-couthouis-56804b187

Fabien Couthouis

Engineer in "Cognitique", Major in Artificial Intelligence

Education

2017	- 2020
ENSC -	Bordeaux

Engineer's Degree in Cognitive Engineering

INP. France

- Major in Artificial Intelligence (partnership with ENSEIRB-MATMECA)

Generalist school integrating information sciences, knowledge sciences, cognitives sciences and human factors, applied to systems design.

2015 - 2017 Cycle Préparatoire de Bordeaux, France 2012 - 2015 Lvcée Val de

Two-years intense Mathematics and Physics curriculum ("CPGE")

Theoretical knowledge in mathematics, physics and computer science.

Scientific (french "Baccalaureat")

Garonne, France With honours.

- Major in mathematics

Professional Experiences

Programming Interfaces for Genetic Fuzzy Trees (internship) February -

July, 2020 Conception of tools to simplify the use, the integration, the diffusion and the Thales AVS. RHS explainability of a proprietary technology based on fuzzy logic, developed lab - Mérignac, by the startup Psibernetix (acquired by Thales in 2019).

France

module for autonomous drones. Automation of Insurance Business Processes (internship)

May - August, 2019

- · Implementation of user tests and design of a decision tree for a voicebot used to make phone appointments.

Assessment of a cognitive impairment screening solution (internship)

Institut des Métiers • Obtaining sources of improvement from occupational therapists and students who have used the software: interviews, user testing and focus group.

Other Experiences (more on my Github page!)

2019-2020 Publications: Explanability and Reinforcement Learning

- Inria ENSTA Survey about explainability in deep reinforcement learning. ParisTech
 - Method explaining the contributions in a multi-agent context (in progress).

Smart Mirror 2017-2018

· User centered design of a smart mirror for students. It allows the display of contextualized information (such as the weather, public transport schedules...) according to the student timetable.

2016-2017 **Virtual Reality Game**

- Cycle Préparatoire Tower defense game developed using Unity game engine. de Bordeaux
 - Synthesis paper on virtual reality and human factors.

de la Santé, HACS lab - Bordeaux.

ENSC

- Digital" service -Niort. France
- Covéa, "Conseil of client emails. Data processing, creation and testing of both deep learning models and a proprietary expert system. Dissemination around the theme of machine learning to other teams.

(Gym / Unity ML-Agents).

- Collection of needs for the fraud detection service.

· Interfaces to bring compatibility with reinforcement learning environments

· Application within a proof of concept in collaboration with other teams: avoid

Experiments around natural language processing for automatic redirection

- France
 - Report on the user experience and suggestions to improve the software.

June, 2018