



# THEO CASTILLO

Computer Science Student

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I am seeking a three-year work-study programme starting in September 2026 to further develop my expertise in deep learning.

## PROJECTS (E-PORTFOLIO)

### Language Model Personal

Creation and training of a French language model using PyTorch

### GPT2 Haskell Internship

Implementation of the GPT-2 model in Haskell using the Hasktorch library in functional programming

### Neural Network Library Personal

Development of a neural network library from scratch in Python

### Graph Visualizer Studies

Development of a graph visualizer in Java using the JavaFX library

### Particle Simulator Personal

Implementation of a particle system simulation in C++ using the SFML library and Verlet integration

### TradeFormer Personal

Development of a Transformer-based model to predict financial data

### License Plate Detection and Recognition Personal

Development of a Python pipeline with two YOLO models in sequence: the first detects the license plate in the image, the second extracts the characters from the detected area

## COMMUNITY ACTIVITIES

Participation in machine learning competitions on the Kaggle platform

Publication of a Formula 1 dataset on Kaggle

### HOBBIES

Chess, Formula 1,  
Card Games,  
Running,  
Programming

### LANGUAGES

English: B2  
Spanish: A2

## EXPERIENCES



### Genial - AI Developer - Apprenticeship - 2025

1-year apprenticeship at Genial, a startup developing specialized AI agents for other companies

- Developed AI agents and supporting tools
- Managed RAG pipelines, context engineering, and orchestration
- Handled customer feedback



### Genial - AI Developer - Freelance - 2025

1-month freelance mission at Genial as an AI developer

- Setting up and managing a sole proprietorship



### Ochanomizu University - Tokyo - 2025

10-week internship at Ochanomizu University in Tokyo, in a research laboratory focused on machine learning and natural language processing.

## EDUCATION

IUT

Gradignan

2024-present

Gustave

Eiffel

2020 - 2023

### BUT in Computer Science

Currently in my second year of a BUT in Computer Science

### Technological Baccalauréat with High Honors

## SKILLS

**Programming Languages:** Python Java Javascript

HTML CSS C C++ C# Haskell

**Artificial Intelligence :** PyTorch scikit-learn

Matplotlib TensorFlow Numpy Pandas Langchain

**Web:** React Symfony Django Bootstrap

**Software:** NetBeans WebStorm PyCharm

Visual Studio Code Visual Studio IntelliJ

**Databases:** SQL MySQL pgAdmin

SQL Server Management Studio