

# Nathan Pizzetta

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## Education

### Toulouse School of Economics (TSE)

*Toulouse*

- Master Degree - Data Science/Econometrics and Statistics Sep 2023 - Present
- Double Bachelor's Degree - Mathematics and Economics Sep 2019 - Jun 2023

#### **Key coursework:**

*Machine and Deep Learning, Big Data, Advanced Statistics, High Dimensional Data Analysis*

## Professional Experience

### Data Scientist/Engineer - Apprenticeship

Sep 2024 - Present

*Ecologie Logistique, Paris*

### Finalists of Google & Think Young Hackaton

Jun 2024 - Sep 2024

AI powered tool against misinformation

*TSE Junior Etudes, Paris*

- Developed an NLP tool called "Verichat" to fact-check information and provide insights on members of the European Parliament.
- Got a partnership with AFP (Agence France Presse) to get access to their APIs.
- Presented our solution at Google's headquarters in Paris.

### Machine Learning model for Churn Prediction

Apr 2024 - Jun 2024

*TSE Junior Etudes Mission, Toulouse*

- Developed a XGBoost predictive model to identify customer churn.
- Implemented a full pipeline in Python for production (Sklearn and custom-built classes).

### Data Scientist - Internship

May 2022 - Jul 2022

*Ecologie Logistique, Paris*

- Database Conversion Application
  - Created a Python application for converting and concatenating Access databases to CSV format.
  - Deployed the application on the Streamlit platform.
- Web Scraping and Data Retrieval Scripts
  - Designed and implemented web scraping scripts in Python to gather online data.
  - Enhanced data collection processes to enable continuous data retrieval.
- Foot Traffic Prediction with Cliris Group (AI company)
  - Conducted in-depth research to identify the most effective modeling approaches for foot traffic prediction, including Graph Neural Networks (GNN), Convolutional Neural Networks (CNN), and Generative Adversarial Networks (GAN).
  - Delivered a comprehensive project presentation to a panel of three AI PhDs, successfully demonstrating the relevance and impact of the proposed methodologies.

## Projects

**GenAI** - Image generation with Diffusion model

Dec 2024 - Jan 2025

**Computer Vision** - Object Detection using YOLOv8 model

Nov 2024 - Dec 2025

## Technical Skills

**Programming Languages:** Python, R, LaTeX, Bash

**General:** Predictive modeling, Statistical analysis, Machine learning, Deep Learning, Web Scraping

**Tools:** GitHub, Terminal MacOS, VSCode, RStudio, Jupyter, Web Dev Tools

## Languages

**English:** B2 certified TOEFL (91 points)

**Spanish:** C1 certified DELE

**French:** Native speaker

## Favourite Hobby

**Trekking:** Passionate about long-distance hiking and exploring mountainous regions.