

# Maël Le Guillouzic

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## PROFESSIONAL SUMMARY

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Ambitious Master's student in AI, Applied Mathematics, and Computer Engineering at a top French engineering school. Experienced in machine learning, image processing, and deep learning, with a strong foundation in mathematics and programming. Seeking challenging opportunities in AI and data science to leverage my technical skills.

## EDUCATION

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**Télécom Paris** | Paris, France | September 2022 - Present (Expected graduation: 2026)

- Master's in AI, Applied Mathematics, and Computer Engineering
- Coursework: Data Science, Image Processing, Deep Learning, Language Theory, Signal Processing, Probability, Statistics
- Notable Project: Developed a Deepfake detection system using convolutional neural networks (ResNet 18)

**Preparatory Classes for Grandes Écoles (CPGE)** | Janson-de-Sailly, Paris | September 2019 - June 2022

- Intensive two-year program preparing for highly competitive entrance exams to top French engineering schools
- Focus: Advanced Mathematics, Physics, and Engineering Sciences.
- Achievement: Admitted to Télécom Paris (top digital technology school in France), Ponts ParisTech, and ENS Paris Saclay

## LEADERSHIP EXPERIENCE

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**President, Télécom Paris Student Union** | Palaiseau, France | April 2023 - May 2024 (1 year)

- Led a team of 26 to manage all aspects of student life for 1,600 students
- Oversaw an annual budget of €400,000 and organized major campus events
- Implemented initiatives to prevent alcohol-related risks, harassment, and sexual violence
- Served as the primary liaison between the student body and school administration

**Treasurer, Télécom Voile (Sailing Club)** | Perros-Guirec, France | June 2023 - September 2024 (1 year)

- Managed an annual budget of €7,000 for the school's sailing association
- Leveraged 3 years of sailing instruction experience to enhance club activities

## PROFESSIONAL EXPERIENCE

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**Engineering Intern** | Halter AG | Geneva, Switzerland | Summer 2023 (2 Months)

- Contributed to a €200 million real estate project (Pont Rouge B2) as part of an 8-person engineering team
- Coordinated interventions between multiple stakeholders and managed on-site operations

**IT Intern** | Thalès Services | Paris, France | June 2017 (1 Month)

- Assisted in preparing virtual machines for technical teams. Gained exposure to corporate IT infrastructure and services

## NOTABLE ACADEMIC PROJECTS

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**Deepfake Detection using Convolutional Neural Networks** | First-year engineering student

- Generated faces using a diffusion model to make them as realistic as possible. Then, detected fake faces from real ones using a convolutional neural network (Resnet 18). Final application project in machine learning.

**JPEG Grid Detection** | Second-year engineering student

- IMAGE track project. Detection of the original JPEG grid based on the number of zeros in the DCT and application of the developed method for image forgery detection.

## TECHNICAL SKILLS

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- **Programming:** Python, C++, React, Typescript
- **Areas of Expertise:** Mathematics, Machine Learning, Deep Learning, Image Processing, Signal Processing, Data Science

## ADDITIONAL INFORMATION

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- Languages: French (Native), English (Professional working proficiency), German (Elementary proficiency)
- Interests: Geopolitics (actively follow international relations and policy developments), Competitive sports (participate in sailing competitions and various team sports),