

# Baptiste PRAS

*Bachelor student in Computer Science*

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I am a Bachelor's student at University Paris-Saclay, passionate about Artificial Intelligence and Data Science. I aim to further my studies in these fields to deepen my knowledge, gain hands-on experience and ultimately pursue a PhD to contribute to research and innovation.

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## EDUCATION

### Computer Science Magister

Paris, France

University Paris-Saclay (GPA: 13.8/20)

2024-2025

- Selective and prestigious program
- Reinforced curriculum with advanced computer science courses, with a focus on artificial intelligence and distributed algorithms
- University ranked 1<sup>st</sup> worldwide in mathematics (Shanghai ranking), and 12<sup>th</sup> overall, highlighting its academic excellence

### Dual Bachelor Degree in Computer Science and Mathematics

Paris, France

University Paris-Saclay (GPA: 14.67/20 | 14.47/20)

2022-2024

- Integrated rigorous coursework in mathematics and computer science, providing a strong foundation in algebra, probability, data structures, and algorithms, while fostering advanced skills in problem-solving and computational thinking

### High School Baccalaureate

Rumilly, France

Démotz de la Salle High School (GPA: 16.88/20)

2020-2022

- Specialization in mathematics and computer science, graduated with highest honors
- Participated in several Erasmus programs (Denmark, Croatia, Italy, Hungary)

### English School

New-York, USA

EF New-York

2019-2020

- Completed an intensive English immersion program, achieving C2 proficiency
  - Developed independence, autonomy, and cultural openness by living alone in a foreign country at the age of 16
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## PROFESSIONAL EXPERIENCE

### Study and Research Project (*internship*)

Paris, France

LISN

January – April 2025

- Studied the impact of class imbalance in train and test sets on classification tasks performance, aiming to identify an optimal imbalance ratio different from 0.5
- Conducted experiments in Python, using Scikit-Learn, NumPy, and Matplotlib
- Analyzed various class imbalance scenarios using a hand-coded spherical Teacher-Student perceptron, introducing different noise levels, using different loss functions and learning methods, such as gradient-based training and Langevin dynamics
- Generated and processed different types of data, primarily Gaussian distributions

## Generative AI Trainer

Remote

Outlier

2025

- Designed and refined prompts to enhance the performance of generative AI models
- Reviewed and corrected AI-generated outputs to ensure accuracy and quality
- Contributed to the continuous improvement of deep learning models through feedback and prompt optimization

## Stock Associate (*summer job*)

Seyssel, France

Carrefour Market

2021-2024

- Ensured optimal shelf stocking, provided customer assistance, and maintained high standards of store organization

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## ACADEMIC PROJECTS

- **Spherical Teacher-Student Perceptron:** Implemented in Python a spherical Teacher-Student perceptron, entirely hand-coded using only NumPy, to analyze various class imbalance scenarios
- **Image Classification:** Developed a machine learning model for the recognition of specific traffic signs using supervised learning algorithms. Extracted data from pictures, pre-processed it and trained several models on it. Reached a performance of over 95%
- **Java-like Interpreter:** Made an interpreter based on Java, implementing various instructions, basic arithmetic, classes and methods. Implemented Java-like type checking. Coded in OCaml, Ocamllex and menhir
- **Various 2D Games:** Air Hockey in Python; Labyrinth creation and solving in Ocaml; Colt Express in Java; Termite Battle simulation in C++; Data treatment in C++

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## SKILLS AND INTERESTS

### Hard Skills

- **Python:** Proficient, experienced in NumPy, Matplotlib, Pandas, Seaborn, Scikit-Learn
- **C++/C:** Proficient
- **OCaml, Java:** Intermediate
- **SQL, HTML, Processing:** Familiar with
- **Office Suite:** Word, PowerPoint, Excel

### Languages

- **French:** Native language
- **English:** C2 proficiency
- **Russian:** Basic knowledge (A1-A2)
- **German:** Basic knowledge (A1-A2)

### Soft Skills

- **Teamwork, collaboration and leadership:** Developed through 15 years of basketball, including coaching and refereeing younger players
- **Work ethic:** Demonstrated punctuality and reliability working on previous jobs
- **Flexibility and adaptability:** Quick learner, easily adapting to new tools and priorities
- **Autonomy and initiative:** Experience living abroad, as well as professional experience in self-learning and complete independence

### Interests

- **Basketball:** Practiced 15 years. Coached younger players and held a referee license
- **Algorithmic:** 5 years of practice in competitive programming. Finalist of the Prologin contest three times. Active on LeetCode and Advent of Code