

NATHAN BOUGHALEM-SALIER

PRESENTATION Cycle Ingénieur Student (X22) at Ecole Polytechnique, specialized in Mathematics and Computer Sciences. I am seeking for a summer internship in machine learning to enhance my knowledge of theory and technical skills.

EDUCATION **ECOLE POLYTECHNIQUE (#1ST French Engineering School)**

2022 – 2026: POLYTECHNICIEN ENGINEERING CYCLE (CYCLE INGENIEUR)

- Main courses: Optimization and control, Statistics, Markov chains and martingals, Algorithms for data analysis, Simulation of rare events, Algorithms and data structures, Complex analysis, Company strategy.
- Following machine learning and neural networks training courses on Coursera, taking part in Kaggle contests.

UNIVERSITÉ PARIS-SACLAY

2019 – 2022: DOUBLE BACHELOR OF MATHEMATICS AND COMPUTER SCIENCES

GPA: 3.99 (15.96/20)

- Relevant courses: Measure and integration theory, Advanced linear algebra, Introduction to machine learning, Advanced algorithmics.

WORK

11/2023 – 05/2024: **Group project for Stratolia**

**EXPERIENCE &
PROJECTS**

Development of an optimal trajectory prediction algorithm for a fleet of balloons, using reinforcement learning, for the start-up Stratolia.

11/2022 – 04/2023: **Ecole des Pupilles de l’Air – Grenoble** (Internship Year, Ecole Polytechnique)

Assisting with the management of a military boarding school, tutoring bachelor students through mathematics oral examination.

03/2022 – 06/2022: **Group project on classification of cell images**

Setting up a pipeline to detect cancer cells, data cleaning and convolutional neural networks.

01/2021 – 04/2021: **Development of a data structure for images**

Development of quadtrees, implementation of image manipulation methods.

SKILLS

- Languages: French (native), English (C1), Spanish (B2), Chinese (HSK2)
- Programming languages: C++, Java, C, Python, notions of OCaml

ACTIVITIES

- Sports: Basketball (university’s team), Surfing (as frequently as possible)
- Great interest in movies