

# Horace Guy

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## Machine Learning Engineer

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### Professional experience

**Sep 2023 - Dec 2023** ▼ *Founder in residence* at **Entrepreneur First** (Paris, France)

Part of a curated community of exceptional future founders, working to build globally impactful companies together.  
Formed 3 different teams tackling environmental problems with software.

**May 2019 - Feb 2023** ▼ *Data scientist* in R&D at **Deepki** (Paris, France)

Data science improving energy efficiency of buildings. Worked on:

- A tool to query 220 heterogeneous databases with HTTP REST APIs
- Bayesian modelling of consumption based on location, floor area and usage
- Gap-filling of consumption data to estimate missing monthly points: 2x improvement
- Mentoring and training of 5 interns and junior staff members

**Feb 2018 - Aug 2018** ▼ *R&D engineer intern* at **Stratagem Technologies** (London, UK)

Predictive modelling of NBA basketball in order to advise investment decisions:

- Prediction of the number of Markov transitions remaining during a game
- Implementation of a risk controller framework with property-based and fuzz testing

**Jul 2017 - Dec 2017** ▼ *Data analyst intern* at **Amazon** (Paris, France)

In charge of business intelligence for international (EU + Japan + Canada) Ad services:

- Responsible for weekly business review, monitoring activity through KPIs
- Ad-hoc analysis on performance, revenue attribution, customer retention

**Sep 2016 - Dec 2017** ► *Mathematics Teaching Assistant* at **Lycée Charlemagne** (Paris, France)

Conducting oral exams for...

### Academic experience

**2015 - 2019** ▼ *MSc Engineering* at **Ecole Centrale Paris** (now CentraleSupélec)

Major: Applied Mathematics in Data Science.

Relevant courses includes: random modelling, convex and discrete optimization, machine learning, deep learning, reinforcement learning, natural language processing.

Thesis: Detecting anomalies and monitoring urban furniture energy consumption

**2013 - 2015**

▼ *Higher School Preparatory Classes* at **Lycée Charlemagne** (Paris, France)

MPSI - MP\*: Two-year undergraduate intensive course in mathematics, physics, computer science. Ranked 201/3370 of Concours Centrale-Supélec national entrance exams.

## Skills

### Programming

- Scientific Python: Numpy, Pandas, Scikit-learn, JAX, Numpyro, Matplotlib
- HTML & CSS & JS, Elixir, Git, Bash, CI/CD, Unix tools, Docker, Ocaml

### Language

- French (Native) | English (Proficient) | German (Fair)

## Activities and interest

### Hobbies

Handball | Snowboarding | Surfing | Improv & stand-up comedy

### Activities

Gala Centrale Paris (Equinoxe) student organisation (2017 President)

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