# Raphael Partouche

## Data & AI Engineer

**CONTACT**

+33 6 21 01 15 55
raphaelpartouchepcs@gmail.com

**Linkedin**: @Raphael Partouche

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**PROFESSIONAL EXPERIENCE & PROJECTS**

### Full Stack Engineer | July 2025 – Now
CiviBot – Berkeley, CA (US)

- Contributed to an AI-driven startup incubated at SkyDeck Berkeley while pursuing studies.
- Built end-to-end pipelines for document ingestion, OCR, embeddings, and compliance-check automation.
- Developed and deployed backend APIs using FastAPI.
- Implemented key frontend features with React.

### Real Estate Price Estimation – October 2025

- Processed DVF 2024 public transaction data: cleaning, deduplication, outlier removal, feature engineering.
- Trained a Mahcine Learning model (Gradient Boosting Regressor) with geographic, structural, and categorical features and deployed it using joblib serialization.
- Built the attached web application combining a FastAPI backend and a React frontend to estimate Paris property prices.

### Othello Game – Frontend and AI Development | Spring 2025
Sophia-Antipolis

- Built a full Othello game with interactive UI and custom AI opponent.
- Implemented core game logic with clean, modular frontend code.

### Assistive Navigation Device for the Visually Impaired | Fall 2024
Sophia-Antipolis

- Designed a wearable navigation system for visually impaired users.
- Integrated spatial audio and haptic feedback for obstacle and direction cues.
- Built and tested a functional prototype replacing core white-cane features.

### Product tester | Summer 2021
Water-Id – Karlsruhe (Germany)

Ensured the proper functioning of electronic devices for water quality testing.

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**EDUCATION**

### Eurecom | Sophia –Antipolis | 2024–2027
Engineering Degree – Master in Data Science

- High level engineering curriculum in the Sophia Antipolis, focused on data science and AI in an Interntional environement.
- Building strong expertise in machine learning, database systems, cloud computing, cybersecurity and information theory.
- Complemented by cross-disciplinary courses in law, management, and innovation

### Preparatory Classes for Engineering Schools | Lycée Jacques Decour | 2022–2024
French CPGE in Mathematics and Physics

Two intensive years of undergraduate study in Advanced Mathematics and Physics to prepare for the selective entrance examinations to French Engineering Schools.

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**SKILLS**

**Languages**
- French : Native
- English : Bilingual (C1)
- Spanish: Fluent (B2)
- Italian : Elementary
- Hebrew : Elementary

**Programming Languages**
- Python
- SQL
- C
- JavaScript/Typescript (React)

**Theoretical skills**
- Data science
- Machine Learning
- Cloud
- Data Security
- Information Theory