

# Denis Fouchard

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[Github](#) | [LinkedIn](#)  
London | Paris

## Profile

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Machine Learning and Computer Science student at Télécom Paris with academic experience in deep learning, NLP, and graph learning. Seeking a research-oriented internship in AI/ML.

## Skills

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**Programming:** Python (PyTorch, TensorFlow, Scikit-learn, Transformers), Java, OCaml, SQL, LaTeX

**Languages:** French (Native), English (C2), Spanish (B1–B2), Chinese (Beginner)

## Experience

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**Group Consultancy Project** – Imperial College London, DG Cities – London, UK

*Apr 2025 – Jun 2025*

Housing predictive maintenance using BERT-like sequential deep learning models.

**Developer Intern** – Dassault Systèmes / Exalead – Paris, France

*Mar 2024 – Aug 2024*

Prototyped a text-to-database AI agent backed by large language models (LLMs). Integrated data visualization tools within the Data Perspective Studio environment.

**Machine Learning Intern** – Inria Paris-Saclay – Palaiseau, France

*Sep 2023 – Feb 2024*

Applied ML and statistics to fMRI brain imaging. Developed alignment-based methods to predict future stimuli.

## Education

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**Imperial College London** – MEng Exchange – London, UK

*Jan 2025 – Jul 2025*

Courses: Advanced Deep Learning, Deep Learning for Embedded Systems

**Télécom Paris, Institut Polytechnique de Paris** – MSc in Computer Science – Palaiseau, France

*Sep 2021 – present*

Majors: Data Science / Machine Learning, Theoretical Computer Science

**Lycée Carnot** – Preparatory Classes – Dijon, France

*Sep 2018 – Jul 2021*

Mathematics, Physics, Engineering, Computer Science (CPGE - top-tier entrance training)

## Projects

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**Brain Connectivity Super-resolution (Group competition, 2025)** – Upsample fMRI connectivity matrices using Graph Neural Networks (GNNs)

**Entity Typing in Knowledge Graphs (Master Project, 2025)** – Fine-tuned deep learning models combining LLMs and GNNs for entity type classification

**Codenames AI (Application Project, 2022)** – Used graph diffusion and word embeddings (word2vec, scikit-network) to build an AI player for the game "Codenames"

**Smart Pill Box (Collaborative Project, 2022)** – Designed a connected smart pillbox with Android app, using Java and client-server architecture

**Distributed PageRank (2021)** – Developed a fast, distributed PageRank algorithm using graph clustering (Python)

## Leadership & Activities

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**President and Founder** – TélÉTalks – Télécom Paris

*Feb 2022 – May 2023*

Founded and led a political conference association. Hosted high-profile speakers including Fields Medalist Cédric Villani and Minister Amélie de Montchalin.

**Student Union Member** – BDE Télécom Paris – *May 2022 – May 2023*

Helped organize campus life and student integration events.