

Théo Cornille

Data Scientist

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EDUCATION

- 2018 - 2019 **PARIS-SACLAY UNIVERSITY (X, TELECOM, CENTRALESUPELEC, ENSTA)** Paris, France
Master in Artificial Intelligence - M2 Apprentissage, Information et Contenu (AIC)
Relevant coursework: *Deep Learning, Natural Language Processing, Computer Vision, Image & Signal Processing, Probabilistic Graphical Models, Reinforcement Learning*
- 2015 - 2018 **ARTS ET METIERS PARIS TECH** Paris, Bordeaux, France
Engineering school – Programme Grande Ecole
Relevant coursework: *Mathematics, Physics, Computer Science, Engineering Science, Industrial Management*
Majored in: *Information Systems, Machine Learning and Programming*
- 2013 - 2015 **LYCEE GUSTAVE EIFFEL** Cachan, France
Classe préparatoire aux grandes écoles
Dedicated to the preparation of the highly competitive entrance examinations for French Engineering schools
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EXPERIENCE

- Jan. 23 - Today **DGDDI (FRENCH CUSTOMS)** Paris, France
(2 years) *Experienced Data Scientist*
- Deploying machine learning models for fraud and financial anomaly detection. Understanding and adapting ideas from research papers.
 - Developed and deployed continuously data web apps (Git CI/CD and version controlling) working with agile methodology.
 - Oversaw the code review in the DS team (coding practices: venv, data pipeline, project and code structure, documentation, linting, information logging, unit tests)
 - Did full stack development: from data preparation (Spark), database architecture (SQL, MongoDB), AI model (Python), back-end (Flask API) and front-end (Angular, html, css)
- Apr. 19 - Dec. 22 **DATA&DATA** Paris, France
(3.5 years) *Data Scientist / Tech lead*
- Winner of the LVMH Innovation Award 2021 in the category “Data & AI”
 - Developed conjointly with the CEO the company from scratch: from 0 to 20 clients in the luxury sector (LVMH, Richemont, AP, Hermès) with a 100% client retention rate for 3 years.
 - Worked on multiple BI products (grey market, price monitoring, store locator) incorporating NLP and computer vision used mainly to identify luxury products such as watches, cosmetics, leathergoods.
 - Conducted dashboards demos, technical support and reporting to the client
 - Built a pre-owned watch quotation app for Audemars Piguet
 - Created an in-house web scraper able to collect any kind of data on more than 1000 websites
 - Follow-up and training of a small team of data scientist interns
- Feb. 18 - Jul. 18 **FORTIA FINANCIAL SOLUTIONS** Paris, France
(6 months) *IT Business Analyst Intern*
- Defined new features of “Innova” software (AI automated tool for compliance in Investment Banking)
 - Involved in demos & workshops to sell the solution and demonstrate use cases with client’s data (BNP, SG)
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LANGUAGE & IT SKILLS

- French: *Native* / English: *Fluent* / German: *Conversational*
 - IT skills: Python (Poetry, Pandas, Dask, Polars, Numpy, Scikit-learn, Pytorch, Keras, Networkx, Hugging Face, NLTK, OpenCV, Transformers, RAG, LLM), SQL/NoSQL, Linux, Cloud (Azure, AWS), Jobs Scheduling (Cron, Airflow), BI Tools (PowerBI, Streamlit), Webscraping (Selenium, Proxy), Spark, Container (Docker, Kubernetes understanding), Javascript, Typescript, Bash, Rust, Jira, Notion.
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ACTIVITIES & INTERESTS

- Surf, Golf, Football, Running, Chess

- Mobile app development for group events (react native, expo, firebase, figma, flutterflow)
- Developing a cryptocurrency trading tool using Deep Q-Learning and Binance API (model training, backtesting & trading)