

JIRI DE JONGHE

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in [Jiri De Jonghe](#)  [JiriDeJonghe](#)

Career summary

Product Engineer specializing in Applied AI with experience designing and deploying AI-powered solutions for enterprise clients. Former AI & Data Senior Consultant with proven track record delivering GenAI applications, predictive ML models, and contributing to AI safety research through published conference papers.

Experience

Product Engineer, Applied AI

September 2025– Present

Anthropic

London, UK

- Advise clients to design and deploy Claude-powered solutions
- Provide clients with deeply technical guidance on AI system architecture, optimization, and best practices
- Collaborate with product and research teams to inform feature development with field insights

Software & AI Engineer

September 2022– August 2025

EY

Brussels, Belgium

- **SQL-to-PySpark** | *Python (FastAPI), React (Vite), Azure (Blob Storage, Redis, LLMs, Kubernetes), DevOps (CI/CD, Pipelines)*
 - * **Key Achievement:** Improved efficiency and reduced manual workload by 60-70% for seven separate teams by designing and deploying a client internal SQL-to-PySpark translation tool to accelerate the migration to the cloud.
 - * Initiated and led a full-stack development effort, establishing coding conventions, sprint planning, CI/CD planning and collaborative code review practices.
 - * Researched and benchmarked LLMs for code generation and - translation. Integrated an agentic workflow to handle the translation of SAS to PySpark.
 - * Handled both system design and cloud deployment, leading architectural discussions for generative AI use-cases.
 - * Set up automated deployment through Azure DevOps pipelines, optimizing for fast and safe releases.
 - * Led collaboration with the business to define requirements, manage expectations and shape migration targets.
- **Fraud Detection Model** | *PyTorch, scikit-learn, XGBoost, SHAP*
 - * **Key Achievement:** Reduced false positives by 60% with a recall of 97% in flagged fraud cases, significantly lightening the workload on fraud case investigators.
 - * Built a full data wrangling pipeline to transform raw transactional data into high-quality, model-ready features.
 - * Developed a robust training and evaluation framework to benchmark multiple models and select the best-performing solution.
 - * Integrate model explainability using SHAP values to increase trust in the model predictions.
 - * Collaborated with business stakeholders to validate the model's correctness and deliver a clear positive business case.
- **Underwriting Automation** | *Python (Flask), React (Vite), Azure (Blob storage, Whisper, AI Speech)*
 - * **Key Achievement:** Automated underwriting insights by building a voice analytics pipeline for Dutch and French, achieving 9% word error rate, and extraction of key data to shorten the process to get an understanding of previous client interactions.
 - * Evaluated multiple speech-to-text models. Selected and integrated for optimal speed and performance in multi-lingual context.
 - * Led and mentored a small team of junior developers and data scientists. Organized upskilling sessions to increase productivity and autonomy.
 - * Created an intuitive frontend interface to review calls and collect structured human feedback.
- Contributed to AI safety research, exploring adversarial robustness of NLP models (e.g., prompt injection, data poisoning), resulting in two accepted conference papers.
- Led go-to-market (GTM) initiatives and market research to identify AI opportunities, upskill teams, and support client development.

Education

Master in Computer Science — Artificial Intelligence, KU Leuven

2020–2022

Master Thesis: Usage of Gaussian Mixture Models for the classification of (sub)genres of Music

Bachelor Engineering Sciences — Computer Science, KU Leuven

2016–2020

Bachelor Thesis: Casting to multi-screen videowall

Academic Publications

- Belmoukadam, O., De Jonghe, J., Sassine, N. (2023) *AdversNLP: A Practical Guide to Assessing NLP Robustness Against Text Adversarial Attacks*. 2nd ICML Workshop on New Frontiers in Adversarial Machine Learning. <https://openreview.net/forum?id=hq9lK3QsRm>
- Belmoukadam, O., De Jonghe, J. Ajridi, S. (2024) *AdversLLM: A Practical Guide to Governance, Maturity and Risk Assessment for LLM-based Applications NLAICSE 2024*. <https://ijcionline.com/abstract/13624ijci04>

Personal Projects

- **LLMFromScratch (C)**: a step-by-step guide for logically building up LLMs for any technical level starting from a perceptron. Provides an intuitive explanation, a mathematical deepdive and implementation in C.

Technical Skills

- **Programming Languages**: Python, Go, C, HTML, CSS, JavaScript
- **Frameworks**: PyTorch, TensorFlow, scikit-learn, React, FastAPI, SHAP
- **Others**: Azure, Redis, Kubernetes, CI/CD, DevOps, MLOps

Languages

- Dutch - Native
- English - Fluent
- French - Intermediate
- Spanish - Basic