Jiri De Jonghe

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🔗 Jiri De Jonghe ⭘ JiriDeJonghe

Career summary

Graduated in 2022 as a civil engineer specialized in computer science from KU Leuven, I joined EY as a consultant in the AI & Data team. At EY, I have worked on diverse client projects while contributing to research, continuously expanding my expertise in AI and data.

Experience

AI & Data Senior Consultant   September 2022– Present
EY   *Financial Services*

- Various GenAI use cases: Retrieval Augmented Generation (RAG), code generation, Question Answering (QA)...
  - ∗ Developed a SAS-to-PySpark translation tool, automating 60-70% of processes, improving efficiency and reducing manual workload.
  - ∗ Implementation of complete voice analytics pipeline for Dutch and French enabling underwriting automation by post-processing the transcriptions to extract key data
- Traditional ML use-cases: using XGBoost, CatBoost, Sklearn to develop ML models for financial services
  - ∗ Building fraud detection models including data wrangling, model building, explainability and model validation
- Research: investigating the robustness of NLP models and LLMs against adversarial attacks, leading to two accepted conference papers
- Led GTM strategies, facilitated stakeholder management, and contributed to client development through AI-driven insights.

Education

Master in Computer Science, *KU Leuven*   **2020–2022**
Major: Artificial Intelligence
Master Thesis: Usage of Gaussian Mixture Models for the classification of (sub)genres of (Electronic Dance) Music

Bachelor Civil Engineering, *KU Leuven*   **2016–2020**
Major: Computer Science
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**: a step-by-step guide for designing LLMs at any technical level starting from a perceptron up to LLMs
- **InstaNER**: CLI tool enabling users to automatically create training data and train a NER model by leveraging agentic workflows

Programming Languages

- **Proficient**: Python, C
- **Intermediate**: React, Go

Certifications

- Azure Fundamentals AZ-900
- Azure Data Scientist Associate DP-100

Languages

- Dutch - Native
- English - Fluent
- French - Advanced
- German - Notions