

RUBEN DEDONCKER



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DATA SCIENTIST

PROFILE INFO

Experienced Data Scientist in NLP and GenAI.

Analytical and critical thinker with an approachable and open-minded personality.

TECH SKILLS

Programming

Python • C/C++ • Java

OpenAI • HuggingFace

TypeScript • JavaScript

Databases

MySQL • PostgreSQL

MongoDB • Elasticsearch

Neo4j • Azure Blob Storage

Development

Git • CMake • Docker

Visual Studio (Code)

Jenkins • Airflow

Operating systems

Linux (Ubuntu, RHEL)


Windows


SOFT SKILLS


Personal

- Highly adaptive
- Communicative teamplayer
- Goal-oriented
- Diplomatic

Languages

Dutch 

English 

French 

WORK EXPERIENCE

AI Engineer | Belfius Oct 2024 - Present

- Development of next-generation **conversational chatbots** using LLMs.
- Enabling **Multi-Agent** communication ecosystem on **Azure**.
- Enhancing conversation quality using **Retrieval Augmented Generation**.

Associate | Cream Consulting Jan 2024 - Present

- Built multiple LLM-based internal tools to aid **Business Development**.
 - Style formatter of personal resumes
 - Matching tool of resumes to job positions
 - Resume screening
- Cost efficient deployment of local **Large Language Model** on **AWS** cloud.
- 1-on-1 language coaching of colleagues to improve their Dutch.

Functional Analyst | Smals May 2024 - Oct 2024

- Authored an emergency **business continuity plan** to mitigate the risks in case of failure of legacy **COBOL** systems.
- Organized meetings with personnel to gather key insights of **business processes**.

Data Engineer | AlphaCredit Jan 2024 - Apr 2024

- Led **ETL** server migration from **Windows** to **Red Hat Linux**.
- Reviewed and refactored legacy **Python** code and translated ± 200 **PowerShell** scripts to **Shell** and **Python**, to fewer than 30.
- Set up the coding environment on new **Linux** servers using **VSCode** and **Git**.

Data Engineer - Allianz Benelux Apr 2023 - Jan 2024

- Developed an in-house dashboard application for portfolio steering using **R Shiny**.
- Led **model calibration** for the migration to a first-party pricing tool.
- Integrated **Posit Connect** for deploying **Python** and **R** applications, handling testing and issue reporting.

Data Scientist | Bee-Relevant Sep 2022 - Jan 2024

- Designed a Skills Ontology in a **Knowledge Graph** and built a job and course recommender system.
- Developed **NER** and **Entity Linking** models using **Transfer Learning** on **Transformers**.
- Created data with a **ChatGPT** bot and applied **semi-supervised learning** to improve model training.

Data Scientist | Allianz Benelux Oct 2020 - Sep 2022

- Core developer of a data-driven underwriting assistant with hands-on experience in building **NER** models.
- Skilled in **Python** backend development, microservices (**REST APIs**), and database management (**SQL, NoSQL, Neo4j**).
- Experience in **Agile** product development.

EDUCATION

- **Master of Artificial Intelligence**
2019 - 2020 | Katholieke Universiteit Leuven
 - Option Engineering and Computer Science
- **Master of Science in Physics**
2017 - 2019 | Katholieke Universiteit Leuven
 - Major in Theoretical Physics

PERSONAL ACTIVITIES

Recreational programmer

Enjoy challenging myself with personal programming projects to maintain and improve my programming skills.

Drumming enthusiast

3+ years of experience and counting.

Avid game jammer

I occasionally participate in global Game Jams, where the goal is to develop a full game from scratch within 48 hours.