

Ruben Broekx

SOLUTION ARCHITECT · TEAM LEAD · MACHINE LEARNING ENGINEER · CONSULTANT

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Remote Sensing – Visual Quality Control – Artificial Intelligence – Machine Learning – Computer Vision – Time Series Analysis

Summary

I am a Machine Learning Engineer by profession and an Artificial Intelligence enthusiast by passion. I lead and architect AI-powered solutions at Radix, an AI consultancy from Brussels. With my academic grounding from KU Leuven and hands-on experience across various sectors, I specialize in transforming intricate problems into innovative AI solutions. My current primary focus is on Remote Sensing and Visual Quality Control. Together with my team of high-performing Machine Learning Engineers, we continually push the boundaries of what's possible within the field.

Experience

Radix

Brussels, Belgium

SOLUTION ARCHITECT - TEAM LEAD

July 2022 - PRESENT

- Translated customer needs into system solutions, creating scalable and efficient architectures to meet project goals.
- Conceptualized and orchestrated AI/ML project architectures, ensuring they met business goals and technical specifications.
- Stayed up-to-date on advancements in AI/ML to incorporate into solution designs, ensuring cutting-edge and relevant applications.
- Directed a team of Machine Learning Engineers, facilitating communication, collaboration, and professional growth.
- Provided technical guidance and feedback, fostering a culture of continuous learning and improvement.

SENIOR MACHINE LEARNING ENGINEER - CONSULTANT

January 2022 - PRESENT

- Managed end-to-end project lifecycles, overseeing the planning, execution, and deployment of machine learning solutions.
- Stakeholder management with various clients simultaneously. Translating client needs into technical requirements and providing regular project updates.

MACHINE LEARNING ENGINEER - CONSULTANT

August 2020 - December 2021

- Developed AI solutions in the agricultural sector, such as detecting parcels and farming practices or crop health monitoring.
- Constructed sophisticated, language-agnostic parsing systems to streamline information extraction from job vacancies and resumes.
- Implemented advanced models for population sentiment analysis and news ranking leveraging public data sources and financial factors.

Contact: Davio Larnout – davio@radix.ai

Nokia Bell Labs

Antwerp, Belgium

RESEARCH INTERN

July 2019 - Sep. 2019

- Developed a code summarization artificial neural network that predicts a short natural language description for a given Python code snippet, with the assistance of a highly skilled team of researchers.
- Built a Keras based framework to efficiently process data and train/evaluate different types of models.

Contact: Tom Van Cutsem – tom.van_cutsem@nokia-bell-labs.com

University of Leuven

Leuven, Belgium

TEACHING ASSISTANT TO THE BACHELOR'S THESIS

Sep. 2018 - June 2019

- Assisted the students of Computer Science with their Bachelor's thesis.
- Helped guiding a TensorFlow-based face recognition mobile application.

SoundTalks NV

Leuven, Belgium

BACK END DEVELOPER - STUDENT JOB

Aug. 2018 - Sep. 2018

- Developed the back end for their product website using Python and the Django REST framework.
- Tripled server query response time by restructuring the code and modifying the queries.
- Worked in a Scrum environment.

Contact: Dries Berckmans – dries.berckmans@soundtalks.com

Education

University of Leuven

Leuven, Belgium

MASTER IN COMPUTER SCIENCE - ARTIFICIAL INTELLIGENCE - MAGNA CUM LAUDE

Sep. 2018 - June 2020

- Thesis subject: "An Empirical Investigation of Using Gated Recurrent Units in Evolved Robotic Controllers."

University of Leuven

Leuven, Belgium

BACHELOR IN COMPUTER SCIENCE AND ELECTRICAL ENGINEERING - CUM LAUDE

Sep. 2015 - Aug. 2018

- Thesis subject: "Virtual Multi-Agent Drone Delivery System."