


Luca Rijneveld

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PROFESSIONAL EXPERIENCE & NOTABLE PROJECTS

Artificial Intelligence - Internship

Noordwijk, The Netherlands

European Space Agency (ESA)

Feb. 2024 - Jul. 2024

- As an intern for the ESA knowledge management team it was my duty to extract knowledge from data. Using NLP and other AI techniques.
- I was able to contribute to the project in a technical way, extracting and processing the data. Building a database using SQLAlchemy, Python and MariaDB to store and retrieve this information.
- Fine-tuned open-source LLMs to identify and extract entities from the processed text.
- I got the opportunity to work with other teams inside the agency and had a small and personal learning environment with a mentor to intern ratio of 2:1.

Project Assistant Strategy & Research - Contract

Kaatsheuvel, The Netherlands

Efteling

Aug. 2022 - Currently

- Working for one of the top 5 EU theme parks and helping them in their mission to create a better and more magical experience for over 5,43 million guests a year.
- I support the Strategy & Research team by helping them visualize data, gather data, and lighten the workload by picking up tasks wherever I can.

Analytics Translator & Researcher - University Researcher

Breda, The Netherlands

Breda University of Applied Sciences

Sept. 2022 - Nov. 2022

- Researched attitudes, knowledge, acceptance, and perceived impact of AI in the Creative Media and Games Technologies by conducting quantitative and qualitative research.
- Wrote a research paper on AI acceptance across the different subdomains of the study
- Helped policymakers gain a better understanding of AI in the different domains of the school and helped with creating policies that affect 7,500 students.

EDUCATION

Breda University of Applied Sciences

Breda, The Netherlands

BSc in Applied Data Science and Artificial Intelligence

- **Relevant Coursework:** Advanced Data Analytics, Business Intelligence, Machine Learning Algorithms, MLOps, Reinforcement Learning, Large Language Models, Robotics, Deep Learning, Natural Language Processing, Cloud Computing, Software Development, Statistics, Mathematics, Agile, Data & AI Ethics/Law, and Explainable AI.
- **Specialization project:** AI techniques in AAA video games, in partnership with game development students
- **Small-scale intensive education:** Lecturer/mentor to student ratio of 1:5
- **Cumulative GPA:** 7.5/10 or 3.4/4.0

SKILLS & TECHNOLOGIES

- **Programming Languages:** Python, R, and C#. Additionally, HTML, CSS, and JS
- **Data Analytics:** Power BI, Tableau, Exploratory Data Analysis, Jupyter notebook.
- **AI & Data Science:** Pandas, Numpy, SQL, Excel, SciKit Learn, TensorFlow, Pytorch, Neural Networks, OpenCV, Keras, AutoML.
- **Language Models:** ChatGPT API, Whisper API, Transformers, Naive Bayes, BERT.
- **Cloud:** Azure ML, Docker, MLFlow, Weights and Biases, ClearML.
- **Miscellaneous Technologies:** Visual Studio Code, Git, Github, Anaconda, Azure DevOps, LaTeX.

VOLUNTEER WORK & OTHER PROJECTS

- **Natural Disaster Detection using NLP:** Python (BERT, sklearn), Azure ML, Docker, Transformers
- **Bird Recognition using Computer Vision:** Python (TensorFlow, Keras), Explainable AI (GradCAM, Lime)
- **Municipality of Breda:** I was in charge of researching the machine learning approach of this project. My solution was to build a data-driven machine-learning model, decision tree regression, to assist the city's policy makers for a city of 180,000 citizens.
- **Reinforcement Learning & Computer Vision Researcher:** PID controller, OpenCV, YoloV5, Reinforcement Learning Robotics.
- **YPSAT:** Got to work on 2 scientific experiments during my internship at the European Space Agency, where I helped the On-Board Data Handling team.

INTERESTS AND GOALS

AI possesses incredible potential to transform lives, from enhancing the independence of visually impaired individuals through Computer Vision to empowering those with speech impairments to communicate effectively via Speech Processing technologies. As I explored the possibilities, I also came to appreciate the critical role of responsibility in AI. Diversity within the workplace is a cornerstone for mitigating bias in AI systems, and as someone who identifies as neurodivergent (autistic) and a member of the LGBTQIA+ community, I deeply value and understand the importance of fostering diversity. Over the past year, my determination to learn and grow has driven me to acquire substantial knowledge quickly, and I am eager to continue my journey by contributing my skills and passion. I am looking for the opportunity to learn, discover new challenges, and ultimately have a positive impact on the world.