



Thijn Bakker

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Education

Breda University of Applied Sciences (BUAS)

Bachelor of Science in Applied Data Science & Artificial Intelligence

Expected Graduation: 2026

- Achieved propaedeutic certificate in the first year.
- Focus on AI, machine learning, robotics, and data science applications.

Work Experience

Bartender

Eetbar Marktzicht

Jun 2023 - Present

- Delivered excellent customer service in a high-paced environment.
- Managed orders efficiently and maintained quality under pressure.

Selected Projects

Automating Plant Root Analysis & Precision Inoculation (Nov 2024 – Jan 2025)

Developed a computer vision pipeline for plant root segmentation and robotic liquid handling automation for NPEC.

- Key technologies: Deep learning, reinforcement learning (RL), robotics control (PID, RL), Opentrons OT-2, Kaggle competition.
- Delivered a full AI-robotics solution to improve plant phenotyping.

Bridging AI & Business: Analytics Translator for SME Digital Transformation (Sep 2024 – Nov 2024)

Acted as the bridge between data science teams and SMEs through Digiwerkplaats.

- Conducted quantitative and qualitative research on AI adoption, cybersecurity, fake news, and digital trust.
- Delivered a policy paper and conference poster with actionable AI strategies.

Enhancing Road Safety with AI-Driven Driving Behavior Analysis (May 2024 – Jun 2024)

Created machine learning models analyzing telematics data (braking, speeding patterns) to improve road safety in Breda.

- Focused on MLOps, time series analysis, and responsible AI under AI Act regulations.

AI-Powered Traffic Sign Detection for Smarter Driving (Feb 2024 – Apr 2024)

Built a deep learning model for real-time traffic sign detection and designed an intuitive driver interface using Figma.

- Integrated Responsible AI practices to ensure fairness across driving conditions.

Data-Driven Player Recruitment for NAC Breda (Nov 2023 – Jan 2024)

Developed supervised and unsupervised ML models to optimize player scouting for NAC Breda football club.

- Built interactive dashboards with Streamlit and ensured GDPR compliance.

AI & Data Science for Sustainable Development (SDGs: Hunger & Climate Change) (Sep 2023 – Nov 2023)

Investigated the link between climate change and food insecurity using Python and Power BI.

- Delivered dashboards and policy recommendations for sustainable food security initiatives.

Technical Skills

- Programming & Data Science: Python, NumPy, Pandas, Power BI, Streamlit
- Machine Learning & AI: Deep learning, supervised/unsupervised ML, reinforcement learning, computer vision, time series analysis
- Tools & Platforms: Kaggle, Opentrons OT-2, MLOps pipelines, Figma (UI/UX Design)
- Project Management: Agile (Scrum/Kanban), Research writing, Policy development
- AI Ethics & Legal Compliance: Responsible AI practices, GDPR, AI Act adherence

Languages

- Dutch: Native
- English: Professional working proficiency

Interests

- Artificial Intelligence applications in real-world environments
- Robotics and automation
- Sustainable development through data-driven insights
- Sports analytics and mobility innovation