

Monika Stangenberg

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Third-year university student with a strong passion for research, statistics, and natural language processing. Goal-oriented and excited to contribute to new projects.

EDUCATION

Breda University of Applied Sciences

Bachelor of Science, Data Science and Artificial Intelligence

Main University Projects:

- **Artificial Intelligence Scientist - Computer Vision & Robotics**

Objective: Developed computer vision and reinforcement learning solutions for NPEC to segment plant roots and control a robotic inoculation system.

Tools: Python, PyTorch, TensorFlow, OpenCV, Weights & Biases (W&B)

Steps: - Trained deep learning model for root segmentation; built full pipeline (preprocessing → inference → post-processing).

- Extracted root traits from masks.

- Designed and benchmarked robotic controllers with performance tracking.

- **Artificial Intelligence Scientist - Natural Language Processing**

Objective: Built an end-to-end pipeline for the Content Intelligence Agency to transcribe, translate, and classify per-sentence emotions.

Tools: Python, Hugging Face Transformers, scikit-learn, spaCy

Steps: - Created annotated dataset; evaluated STT systems with WER.

- Engineered NLP features and trained/evaluated models (LogReg, Naive Bayes, LSTM/RNN, Transformers).

- Integrated transcription, translation, and classification into modular pipeline; applied XAI and created with model card.

Breda, The Netherlands

(2023- Expected Graduation Date: 2027)

ADDITIONAL PROJECTS

Side Project Organized by University

DKG

Collaborated with four peers in the Quality Department on a project, exploring AI and data-driven solutions for quality processes and presenting findings to stakeholders.

Bergen op Zoom, The Netherlands

(01–02/2024)

SKILLS

Languages: Python (Pandas, NumPy, Scikit-learn, Matplotlib), familiar with SQL

Frameworks and Platforms: TensorFlow, PyTorch, Transformers, Azure ML

Applications and Domains: Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision (CV), Statistics, Data Analysis, A/B testing, Data Visualization (Power BI, Matplotlib), MLOps (CI/CD, Model Deployment, Monitoring)

Methodologies: Scrum, Kanban

PERSONAL STRENGTHS

Team Leadership – guiding groups through sprints and collaborative projects

Determination & Initiative – persistent in achieving goals, proactive in identifying challenges and proposing solutions

Communication – clear expression of ideas and strong stakeholder management

WORK EXPERIENCE

Shop Assistant (Winkelmedwerker)

Hema

Filling Team Employee (Vulploegmedwerker)

Albert Heijn

Breda, The Netherlands

(06/2024-Present)

Breda, The Netherlands

(01-06/2024)

LANGUAGES

English – Professional Working Proficiency, **Polish** – Native Proficiency, **Dutch** – Elementary proficiency

ACHIEVEMENTS & CERTIFICATIONS

Third Place at Women's Curling Polish National Junior Championship (2021)

Finalist at historical debate tournament organized by National Remembrance Institute (IPN) (2020)

Dutch Language A1 Certificate (2025); *currently enrolled in A2 course*

Sailing and Motorboat License (2020)

Driver's License (2022)

First Aid Course (2019)