

# SANDER KAATEE

Software Developer | AI Machine Learning | Full-Stack Development

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## PROFILE

Driven AI Developer with an interdisciplinary background in Artificial Intelligence and Psychology. Experienced in developing innovative AI solutions, from research projects to practical business applications. At AB Software Consultancy, the Netherlands' largest Exact partner for the manufacturing industry, I lead AI innovation to streamline complex workflows. Strong in translating complex technology into valuable, user-friendly solutions. Motivated to contribute to the future of smart healthcare at UMCG, with a focus on ethical and impactful AI applications.

## WORK EXPERIENCE

### Support Consultant AI Innovation Lead

#### AB Software & Consultancy

Nov 2024 – Present    Groningen (Hybrid)

- AI Innovation Leadership:** Developed an automated transcription application for support calls to tickets, plus an intelligent RAG-based support bot with LangChain for knowledge management.
- Advanced Technical Support:** Handling complex ERP escalations, collaborating with support professionals and technical application managers for 500+ manufacturing companies.
- Client Advisory:** Strategically advising on ERP optimization and process improvements for manufacturing industry clients.
- Cross-functional Bridge:** Technical liaison between support, application management, and consultancy departments.
- Technical Expertise:** Exact ERP, T-SQL, Python, AI frameworks (LangChain, OpenAI), Sumatra, ScanSys.

### Software Developer

#### Icelandic Institute for Intelligent Machines

Nov 2023 – Present    Reykjavík (Remote)

- Co-authored research on the ICE-ID dataset: 220 years of Icelandic census data for an identity resolution benchmark.
- Refactored an intelligent time-tracking system with rule-based algorithms for automatic project allocation.
- Developed a computer vision system for clothing recognition.
- Implemented predictive modeling for shelf-life prediction in the food industry.
- Data sanitization and processing of historical datasets using Python.

## TECHNICAL SKILLS

### Programming Development

Python    JavaScript    T-SQL    Java  
C    R    HTML/CSS    REST APIs  
Docker    Git

### AI/ML Frameworks

LangChain    OpenAI API    PyTorch  
Scikit-learn    RAG  
Machine Learning    Neural Networks

### Web Full-Stack

Flask    Flask-SocketIO    SvelteKit  
Redis    Caddy    Docker Compose  
Responsive Design

### Enterprise Database

Exact ERP    T-SQL    SQL Server  
Sumatra    Windows Server  
Enterprise Applications

### Cloud DevOps

Docker    CI/CD    Linux  
Cloud Deployment

## PROJECTS COMPETITIONS

### AI-Powered Recruiter Website

Full-stack SvelteKit application with a GPT-4o-mini chat interface, developed in one weekend. Flask backend, multilingual support, responsive design.

SvelteKit    Flask    WebSockets

### Solafune

**Deforestation Challenge**    Rank: 35/476  
Custom MSNet ensemble with Bayesian-optimized training and class-specific segmentation

PyTorch    Computer Vision    Deep Learning

### ITU/ESA GeoAI Challenge

Rank: 12/55  
Trimmed ResNet trio with Bayesian tuning slashed spectral RMSE.

PyTorch    ResNet    Geospatial AI

## Teaching Assistant AI

### University of Groningen

📅 Sep 2022 – Mar 2023

📍 Groningen

- Taught Knowledge and Agent Technology, Knowledge Technology Practical.
- Supervised students on machine learning and AI projects.
- Developed practical assignments for neural networks and NLP.

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## Consultant

### cdi.energy.consult gmbh

📅 Sep 2021 – Feb 2023

📍 Groningen (Hybrid)

- Performed market analysis and business development for TenneT and other energy infrastructure clients.
- Developed data-driven strategic recommendations.
- Coordinated international projects and stakeholder management.

## Co-Founder Producer

### Never Been To Berlin

📅 2019 – 2025

📍 Groningen

- Project management and team coordination for creative productions.
- Business development, strategic planning, and stakeholder management.
- Performed at 50+ venues, demonstrating perseverance and public presentation skills.

## RELEVANT COMPETENCIES FOR UMCG

- **Fast learner:** Learned Svelte and built a full application in a single weekend.
- **Healthcare affinity:** Psychology background, driven by positive societal impact.
- **Ethical AI:** Strong awareness of privacy, security, and responsible AI.
- **Collaboration:** Proven track record in multidisciplinary teams.
- **Innovative:** Proactive in identifying and implementing AI opportunities.
- **Strong communicator:** Experience translating technical concepts for diverse audiences.
- **Open source mindset:** Advocate for knowledge sharing and publishing.

## MOTIVATION FOR UMCG

My passion lies in developing AI technology that tangibly contributes to improving healthcare and simplifying complex processes. With my background in AI research, the ability to quickly adopt new technologies, and intrinsic motivation to make a meaningful difference in healthcare, I am confident I can immediately add value to your team. My fresh, external perspective—driven by curiosity and experimentation—enables me to create innovative solutions that genuinely make a difference for healthcare providers and patients.

*References available upon request*

## LANGUAGES

Dutch  
English



## EDUCATION

### BSc Artificial Intelligence

#### University of Groningen

📅 2017 – 2023

- Focus on machine learning, neural networks, natural language processing, and reinforcement learning.
- Research on ethical AI and the responsible implementation of AI systems.
- Relevant courses: Knowledge Technology, Multi-Agent Systems, Machine Learning, Deep Learning.

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### Propaedeutic Diploma in Psychology

#### University of Groningen

📅 2016 – 2017

- Fundamental knowledge of human behavior and cognitive processes.
- Research methods and statistical analysis.