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*
Vision transformer pipeline for classifying deforestation in Sentinel satellite imagery.

PyTorch   Computer Vision   Deep Learning

ITU/ESA GeoAI Challenge   *Rank: 12/55*
Ensemble model (1D-CNN + LightGBM) for soil parameter estimation from hyperspectral images.

CNN   Ensemble Learning   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.

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.

LANGUAGES

Dutch
English

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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.

Propaedeutic Diploma in Psychology

University of Groningen

📅 2016 – 2017

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

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 drive is to create technology that directly helps people and streamlines complex workflows. The combination of my AI expertise, rapid ability to learn new technologies like Azure, and intrinsic motivation to contribute to healthcare makes me an ideal candidate for this role. I see the "external perspective" I bring as a strength—fresh insights from AI research and process automation that can contribute to innovative solutions in healthcare.

References available upon request