Oskar Johannes BREITFELD

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Software developer and M.Sc. student at TUM with a strong focus on AI/ML engineering and full-stack automation. Building production-grade agentic AI systems, LLM pipelines, and backend automation at SAP Labs Munich — shipping real code used daily by colleagues. Claude Campus Ambassador at Anthropic. Driven by creativity, rigorous ML methodology, and fast iteration from idea to working product.

Experience

SAP Labs, Munich 2025 – Present
Product Portfolio Management – AI Innovation, Connectors & Automations

- Developed an AI quality-assurance system using LLMs and SQL — multi-agent pipeline running automated checks on product planning data (Jira), combining deterministic rules with LLM-based analysis
- Built cross-team AI reporting pipeline with LLM-based analysis; developed and delivered internal AI training curriculum for n8n workflow automation, onboarding non-technical colleagues to agentic tools
- Developed AI chatbots (RAG), knowledge bases, and web applications for department-wide adoption; evaluated enterprise AI tooling

Anthropic 2025 – Present
Claude Campus Ambassador

- Representing Anthropic at TUM; running hands-on workshops and demos to help students and researchers build effectively with Claude and AI coding tools

Self-employed 2024 – Present
Freelance AI Consultant & Automation Developer

- Built DSGVO-compliant AI customer support chatbot (RAG) for KooKoo GmbH as independent project
- Developed browser automations for a medical practice to streamline administrative workflows
- Designed n8n-based LinkedIn automation for a client; custom MCP servers and agentic AI pipelines

KooKoo GmbH, Munich 2020 – 2023
Manager – Digital Marketing & Sales Analytics

- Led data-driven optimization of supply chain logistics, reducing shipping freight costs
- Managed Shopify e-commerce platform; integrated digital systems for operational efficiency

Apple Retail, Munich 2019 – 2020
Specialist – Customer Experience & Product Advisory

- Advised customers on Apple products through workshops and one-on-one consultations
- Demonstrated complex technology to diverse audiences — from beginners to professionals

Research

Semester Thesis, TUM — Grade: 1.0 2025 – 2026
ML-Based Prediction of Plastic Pyrolysis Yields

- XGBoost/Random Forest on 795 datapoints from 127 papers; introduced Paper-Level GroupKFold to eliminate data leakage (MAE inflated by 50–100 % in prior work); SHAP confirms physically consistent feature importance

LES, TUM 2024
Algorithmic simulation for Windpark project + Battery and Electrolysis

Education

Technical University of Munich 2024 – 2026
M.Sc. Energy and Process Engineering

Technical University of Munich 2020 – 2024
B.Sc. Chemical Engineering

Pestalozzi Gymnasium, Munich 2016 – 2019
Abitur

Skills

AI & ML	Python (scikit-learn, XGBoost, pandas, numpy), graph RAG, multi-agent systems, MCP
Dev Tools	Git, REST APIs, SQL, browser automation (Playwright/Selenium), Docker basics, Ubuntu Server, SAP BTP, CI/CD
Web & Backend	Flask / FastAPI, JavaScript, HTML/CSS, Streamlit, webhook integrations, Shopify API
Languages	German (native), English (fluent), Spanish (C1), French (A2), Portuguese (basic)