

BENEDIKT ENGEL

benedikt.engel31415@gmail.com

M.Sc. Student in Computer Science focusing on Data Science and Machine Learning. Interested in Research projects, Applied AI, Data Science and Software Engineering through academic and entrepreneurial projects.

EDUCATION

Karlsruhe Institute of Technology (KIT), Germany M.Sc. in Computer Science (current Grade: 1.3) Focus: Machine Learning, Data Science & Statistics, Robotics	<i>Expected Graduation: Nov 2027</i>
Karlsruhe Institute of Technology (KIT), Germany B.Sc. in Computer Science (Grade: 2.2) Thesis: Budgeted Contextual Multi-Armed Bandits (Grade: 1.0) Focus: Data Science, Robotics, and Artificial Intelligence	<i>Sep 2025</i>

EXPERIENCE

Full Stack Developer, Lexaru <i>Working Student</i>	April 2026 – Present <i>Remote</i>
· Developing AI applications to automate and support complex workflows for authorities. · Engineering scalable application architectures in a fast-paced environment using Svelte, TypeScript, and Drizzle ORM.	
Research Analyst, Horváth <i>Working Student (following a 7-month internship)</i>	April 2025 – April 2026 <i>Stuttgart, Germany</i>
· Developed automated web scraping pipelines and interactive dashboards for sentiment analysis. · Extensive Data-driven Analysis with focus on the automotive sector.	
Institute for Program Structures and Data Organization (IPD), KIT <i>Bachelor Thesis: Budgeted Contextual Multi-Armed Bandits (Grade: 1.0)</i>	Oct 2024 – April 2025 <i>Karlsruhe, Germany</i>
· Developed novel bandit algorithms leveraging contextual information under fixed budget constraints. · Integrated Neural Networks, Gaussian Processes, Ridge Regression into decision-making loop and evaluated performance.	
High Performance Humanoid Technologies Lab (H²T), KIT <i>Assistant Researcher & Developer</i>	March 2023 – Oct 2024 <i>Karlsruhe, Germany</i>
· Co-founded & developed Fluxio, a web-based statechart editor designed to simplify robot programming for non-experts. · Started as Coursework (Grade: 1.0), promoted to Research Assistant due to project success. · Developed Computer Vision module for the Pepper Robot.	

TECHNICAL STRENGTHS

Personal Project	TableXAI (tablexai.de) - Full-stack MVP for AI-based structured table extraction with Vue.js, Python, PaddleOCR and MistralOCR
Languages & Databases	Python, C++, TypeScript, Java, SQL, R, MongoDB, PostgreSQL, Chroma
Frameworks & Tools	ROS, Docker, Git, Vue.js, Svelte, Drizzle ORM, PaddleOCR, Linux, (Graph)RAG
Languages:	German (Native), English (C1 - Fluent), Spanish (B1)