

NICLAS GREGOR

An der Tränk 41, 63303 Dreieich • +49 157 58539855 • niclas.gregor20@gmail.com
<https://github.com/NiclasDev63> | <https://www.linkedin.com/in/niclasgregor> |
<https://niclasgregor.netlify.app>

EXPERIENCE

Student assistant, Fraunhofer Institute for Secure Information Technology (SIT), Darmstadt 2023 - 2024

- Analysis of the distribution channels of false information in messenger services using various NLP techniques
- Optimization of the preprocessing pipeline
- Fine-tuning of SOTA models in the area of sentiment analysis
- Sole development of the demonstrator to visualize the research results of the Dynamo project

Trainee, Pexon Consulting GmbH, Frankfurt am Main 2023

- Deployment of REST APIs within a Kubernetes cluster
 - Creating CI/CD pipelines to automate the software development process
 - Automated provisioning of infrastructure in the cloud using Terraform
-

EDUCATION

Technical University of Darmstadt 2022 - Present

Bachelor of Science in Computer Science

- Focus on artificial intelligence

Max-Eyth-Schule 2019 - 2021

High school degree in Business & Administration Ø2.0

PRIVATE PROJECTS

WYSIWYG editor based platform to improve the learning process of students 2023 - Present

- Fullstack application developed with Next.js/React, TypeScript, Tailwind, tRPC, Prisma, PostgreSQL, S3, NextAuth, TipTap, shadcn

2 NPM packages for extending an open source WYSIWYG editor 2024

- A total of 80,000+ downloads

ImmoGPT 2023

- AI-based real estate consultant who has access to various tools for searching and calculating properties

Algorithms simply explained 2023

- An open source tutorial series on GitHub, explaining basic concepts of algorithmics including different algorithms
- In addition to the tutorial series, I have developed a visualization tool for search algorithms, which allows participants to gain a more intuitive understanding of the content learned

TEAM PROJECTS

Multimodal AI

2024

- Fine tuning of a SOTA model (BEiT-3) in the area of Visual Question Answering for later use as a teacher in the knowledge distillation process
- Trained the student model for implementation on devices to support visually impaired people in everyday life

SRGAN

2024

- Implementation of SRGAN, a Generative Adversarial Neural Network for upscaling images
-

CERTIFICATES

- AWS Certified Solutions Architect Associate
 - Pexon Consulting Cloudbootcamp AWS & Python
-

TECHNICAL KNOW-HOW

- **Python**
 - Pytorch
 - Numpy
 - Pandas
 - Flask
 - Prometheus
 - MyPy
 - **SQL / MySQL / PostgreSQL**
 - **JavaScript / TypeScript**
 - Next.js
 - React
 - tRPC
 - Prisma
 - NextAuth
 - Playwright
 - **HTML / CSS / Tailwind**
 - **AWS**
 - **Git / GitHub / GitLab**
 - **Docker**
 - **Kubernetes**
 - **Terraform**
 - **Java / Scala / Assembly / C / C++ (Basics)**
-

LANGUAGES

- German (native)
- English (C1)