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EXPERIENCE

Sanofi-Aventis Deutschland GmbH

Frankfurt am Main

Artificial Intelligence and Deep Learning Intern

Aug 2024 - Nov 2024

- Spearheaded development of automated AI workflows using Netflix's Metaflow framework, significantly reducing model development time for drug discovery applications.
- Architected scalable data pipelines integrating RDKit, Scikit-learn and PyTorch, processing over 1,000,000+ pharmaceutical compounds with high accuracy.

Data Analyst

Aug 2023 - Oct 2023

- Led data analysis initiatives for insulin production optimization, resulting in significant improvements.
- Analyzed and visualized insulin production data using Excel, Python, Matplotlib, and Seaborn for stakeholder presentations.
- Implemented statistical analysis methods that identified key production optimization opportunities.

Software Developer

Feb 2023 - Apr 2023

- Further developed chemical visualization Website with Django & JavaScript stack, integrating JSME editor to boost user engagement
- Designed backend handling 1000+ requests/min using multi-threaded
- Optimized database performance via cutting API latency

SKILLS

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|------------------|---|
| Programming | Python (Advanced), JavaScript (Intermediate), Java, C/C++, SQL |
| Machine Learning | PyTorch, Scikit-learn, Metaflow |
| Data Science | Pandas, NumPy, Matplotlib, Seaborn, Excel, Statistical Analysis |
| DevOps & Tools | Git, Conda, Linux CLI, Bash-Script, RDKit |
| Web Development | Flask, Django, HTML5, CSS3, REST APIs |
| Certifications | ML Fundamentals(2021), Web Security(2025), Gold Level in Python(2024) |
| Languages | German (C1 - Fluent), English (C1 - Fluent) |

PROJECTS

Fullstack File Sharing Platform

Mar 2025 – Present

- Designing a full-stack platform for secure ephemeral file sharing with password-protected downloads
- Implemented dynamic expiration settings (24h default/custom durations)

Medical Imaging Machine Learning System

Mar 2021 – Sep 2021

- Developed tumor detection system with high accuracy on medical imaging datasets.
- Engineered data preprocessing pipeline handling thousands of X-ray images.

EDUCATION

Frankfurt University of Applied Sciences

Frankfurt am Main

Bachelor of Science in Computer Science, Focus: Software Engineering

Mar 2020 – Present

Studienkolleg Hochschule Konstanz

Konstanz

German High School Diploma, Focus: Mathematics and Technology

Mar 2019 - Feb 2020