Harsh Mukhiya

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WORK EXPERIENCE

Sanofi-Aventis Deutschland GmbH **Frankfurt am Main**

Artificial Intelligence and Deep Learning Intern *August 2024 - November 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 and PyTorch, processing over 1,000,000 pharmaceutical compounds with high accuracy.

Data Analyst *August 2023 - October 2023*

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

Software Developer *February 2023 - April 2023*

- Engineered full-stack applications using Flask and JavaScript HTML5, CSS, leading to increased user engagement.
- Developed RESTful APIs handling multi-threaded 1000+ requests/minute with high availability.
- Optimized database queries, reducing response time by 40% for high-traffic endpoints.

TECHNICAL SKILLS

Programming	Python (Advanced), JavaScript (Intermediate), Java, C/C++, SQL
AI Development	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, HTML5, CSS3, RESTful APIs
Certifications	ML Fundamentals(2021), Web Security(2025), Gold Level in Python(2024)
Languages	German (C1), English (C1)

ACADEMIC PROJECTS

IoT Gaming with Python and Embedded Systems *March 2023 – July 2023*

- Architected wireless gaming system using IoT sensors, achieving low-latency real-time gameplay.
- Implemented real-time data processing pipeline handling multiple sensor inputs per second.

Medical Imaging Machine Learning System *March 2021 – September 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* *March 2020 – Present*

Studienkolleg Hochschule Konstanz **Konstanz**

German High School Diploma, *Focus: Mathematics and Technology* *March 2019 - February 2020*