Harsh Mukhiya

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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 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 Python, Matplotlib, and Seaborn for stakeholder presentations.
- Implemented statistical analysis methods that identified key production optimization opportunities.

Software Developer   *Feb 2023 - Apr 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.

SKILLS

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, HTML5, CSS3, RESTful APIs
Certifications	ML Fundamentals(2021), Web Security(2025), Gold Level in Python(2024)
Languages	German (C1), English (C1)

PROJECTS

IoT Gaming with Python and Embedded Systems   *Mar 2023 – Jul 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   *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*