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

Software Developer   *Feb 2023 - Apr 2023*

- Built chemical visualization tools with Flask/Python & JavaScript stack, integrating JSME editor to boost user engagement by 30%
- Designed backend handling 1000+ requests/min using multi-threaded Python/Flask, achieving 99.9% uptime response
- Optimized database performance via cutting API latency by 40% for 50k+/day 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 - 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*