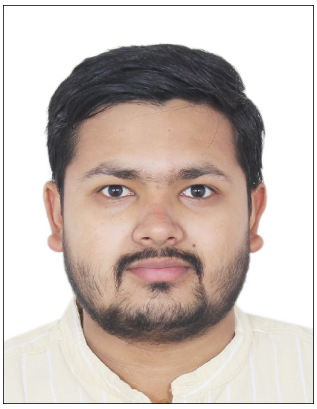

Anirudh Prahlad Joshi

Hamburg, Germany
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linkedin.com/in/anirudhpjoshi — Portfolio

Professional Summary

Data science and software engineering professional with experience in industrial analytics, machine learning, and web automation. Skilled in Python, C++, and modern frameworks such as Vue.js and Angular. Experienced across both research and industry settings, with a proven ability to design, develop, and deploy scalable data-driven applications.

Technical Skills

Programming Languages: Python, C++, JavaScript, Java, Kotlin
Frameworks & Tools: Angular, Vue.js, Node.js, React, Docker, Git, Power BI
Data Science & ML: NumPy, pandas, scikit-learn, PyTorch, TensorFlow, PySpark
Cloud & Big Data: Google Cloud Platform, Apache Kafka, Apache Flink
Other Skills: Deep Learning, LLMs, Generative AI, Computer Vision

Work Experience

Student Assistant — Institute of Production Management and Technology Feb 2025 – Present

- Specializing in industrial analytics, machine learning, and web automation.
- Developing the frontend for a work order automation system using Vue.js to streamline order tracking and coordination.
- Collaborating with backend developers and domain experts to design intuitive UI components that support real-time data analysis.

Technologies: VueJS, Python, MongoDB, Docker

Associate Software Engineer — Bosch Global Software Technologies Jul 2023 – Sept 2024

- Implemented and optimized location search functionality for automotive infotainment navigation systems.
- Identified, resolved, and documented issues related to data accuracy and search performance.
- Conducted extensive testing and debugging of navigation features, collaborating with software, hardware, and UX teams.

Technologies: C++, SQLite, Visual Studio, Qt

Project Trainee — Bosch Global Software Technologies Jan 2023 – May 2023

- Optimized map search algorithms to reduce processing time by analyzing and refactoring legacy code.
- Conducted algorithm testing on infotainment systems to verify reduced latency in location search.

Technologies: C++, SQLite, Visual Studio, Qt

Projects

Federated Sentiment Analysis Apr 2025 – Jul 2025

- Designed and deployed a real-time sentiment analysis pipeline using Reddit data.
- Integrated Apache Kafka and Flink for streaming ingestion and analysis.
- Containerized and deployed the system on Google Cloud using Docker for scalability.

Technologies: Apache Kafka, Apache Flink, JavaScript, Docker, Google Cloud Platform (GCP)

Understanding V in Multi-Modal Language Models Feb 2025 – Sep 2025

- Analyzed the visual understanding of multi-modal language models.
- Created a custom dataset using COCO dataset and question and answer pairs generated by GPT-4.1
- Trained a visual language model using BERT and BEiT architectures and evaluated performance on VQA tasks

Technologies: PyTorch, Python, GPT-4.1, Computer Vision

Debiasing TextVQA Jan 2022 – Jul 2022

- Developed a debiasing model for TextVQA by integrating external datasets for improved fairness and robustness.
- Integrated external datasets for enhanced bias reduction and generalization.
- Used the VQA dataset as a normalization reference to mitigate dataset-specific biases.

Technologies: PyTorch, Python, Computer Vision

Education

Hamburg University of Technology (TUHH) 2024 – Present (Expected 2026)
Master's in Data Science

K.L.E Technological University 2019 – 2023
Bachelor's in Computer Science and Engineering

Languages

English (C1) — German (A2) — Kannada (Native)