

NAMIT BHALENDRA KHARADE

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EXPERIENCE

AIME GmbH

AI Engineer (part-time)

Berlin, Germany

November 2024 - Present

- Conducted **benchmarking** for various AI models on AIME's servers, improving computational efficiency.
- Implemented **demonstrations** of AI models (e.g., **Whisper**, **Llama Chat**, **Stable Diffusion**) to demonstrate AIME's cloud capabilities for real-time applications.
- Document findings and performance metrics, providing **comprehensive documentation** to enhance knowledge sharing and streamline future research and development.

ai-coustics GmbH

Data Engineer

Berlin, Germany

February 2024 - August 2024

- Developed and maintained **Python scripts** to sort and archive audio files into a cloud-based database system on **Google Cloud Platform (GCP)**, achieving a **50%** reduction in file processing time.
- Designed, built, and managed robust data pipeline using **Apache Airflow**, ensuring efficient ETL processes for data collection, transformation, and loading into **BigQuery**.
- Implemented **automatic labeling plugins (Yamnet, DNSMOS)** for efficient categorization and tagging of audio files to improve data organization and accessibility.
- Ensured data accuracy, consistency, and integrity by implementing rigorous **data quality checks and cleaning processes**.

aiio GmbH

Software Engineer

Magdeburg, Germany

March 2023 - July 2023

- Diagnosed and resolved bugs in a **React and Django** based web application, enhancing functionality and improving the overall user experience.
- Integrated **Large Language Models (LLMs)** such as OpenAI's GPT-3.5 and GPT-4 models, applying **AI** to improve user productivity and ease of use.
- Developed and executed comprehensive **unit tests** and conducted rigorous **system testing** to ensure high software quality.
- Supported the development, configuration, and documentation of the Project Management application, contributing to increased project efficiency and collaboration.

Accenture Solutions

Associate Software Engineer

Pune, India

August 2021 - August 2022

- Collaborated with **cross-functional teams** to create and train **machine learning programs** that made customer service better for British Telecom.
- Analysed and prepared data using **Python and SQL** for data analysis and preparation which we then used to train our **AI models**.
- Implemented **CI/CD practices**, utilizing tools such as **Jenkins** to automate and enhance the development pipeline.
- Actively participated in **code reviews**, finding ways to make it better, and following the best practices to maintain code.

AI Adventures

ML Engineer Intern

Pune, India

December 2020 - May 2021

- Developed a chatbot using **DialogFlow** that assisted people with one-stop updates of COVID-19, showcasing hand-on in AI-driven customer service solutions.
- Conducted data preprocessing, cleaning, and augmentation to improve the quality and quantity of training data, contributing to more robust and effective AI models.
- Collaborated closely with the team in the construction and upkeep of a variety of Machine Learning models, gaining valuable hands-on experience in model building and maintenance.

EDUCATION

Otto-von-Guericke University

Master of Science Data and Knowledge Engineering (Data Science)

Magdeburg, Germany

October 2022 - Present

Savitribai Phule Pune University

Bachelor Of Engineering Computer Engineering

Pune, India

May 2017 - July 2021

SKILLS

Languages:	English (Fluent), German (A2 CEFR)
Data Engineering & Analysis:	SQL, Python (Pandas, NumPy, Scikit-learn), BigQuery, Amazon Redshift, Apache Airflow, Docker, Databricks, Kubeflow, dbt
Machine Learning & AI:	Python (Scikit-learn, TensorFlow, PyTorch, Keras), Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Recommenders, Explainable AI, Generative AI (GenAI), Computer Vision (OpenCV)
Programming Languages:	C, C++, Python, JavaScript, TypeScript
Databases:	MySQL, PostgreSQL, MongoDB, SQL Server, NoSQL
Cloud Platforms:	Google Cloud Platform (GCP), Amazon Web Services (AWS)
Data Visualization:	Matplotlib, Seaborn, Plotly, LookerStudio, PowerBI
Development Tools:	Git, Jupyter Notebook, VSCode, Pytest
Web Development:	HTML, CSS, JavaScript, Vue.js
Tools & Platforms:	Jira, Linear, Playwright, Selenium, Microsoft Office 365 (Word, Teams, PowerPoint, SharePoint), Confluence
Other:	Information Retrieval, Web crawling, System Architectures, Testing methodologies (manual testing, automated testing, regression testing), Data Mining, Data Modeling, Swarm Intelligence.
Soft Skills:	Effective communication, Strong problem-solving and analytical skills, Attention to detail, Team player, Collaboration

PUBLICATIONS

Deep-learning based helmet violation detection system

- <https://ieeexplore.ieee.org/document/9670937>
- Presented at the 2021 International Conference on Artificial Intelligence and Machine Vision (AIMV).

COVID-19 pandemic deep learning implementations of prediction of disease with data analysis and real-time face-mask detection with camera

- <https://ieeexplore.ieee.org/document/9670960>
- Presented at the 2021 International Conference on Artificial Intelligence and Machine Vision (AIMV).

PROJECTS

Data-driven Recruitment Strategy

- Improved talent acquisition by analyzing project success factors and using **AutoML** for predictive insights.
- Technologies: **Python, GCP (BigQuery, BigQueryML, Vertex AI, Kubeflow, Looker Studio)**.

Image Clustering with SCAN and Visual Explanation

- Grouped images into semantic clusters using **SCAN** and applied **grad-CAM** for visual feature explanations.
- Technologies: **Python, PyTorch, TensorFlow, CUDA, grad-CAM, scikit-learn, matplotlib**.