

Priyanshu Sankhala

M.Sc. Student at TU Dresden

Zellescher Weg 41
01217 Dresden

☎ (+49) 15510 940539

✉ priyanshu.sankhala@tu-dresden.de

🐙 [GitHub](#) [in LinkedIn](#)



Motivation

Background in M.Sc. Computational Modeling and Simulation with strong interest in programming, databases, and hardware-related software development.

Education

2025 – **Master of Science in Computational Modeling and Simulation.**

Present **Technische Universität Dresden, Germany**

GPA: 2.9/5

Main Modules: Digital Circuit Technology, Deep Neural Network Hardware, Computer Vision, Machine Learning

2019 – 2023 **Bachelor of Technology (B.Tech) in Electrical Engineering.**

National Institute of Technology, Raipur, India

Main Modules: AI & ML, Data Science, Deep Learning, Control Systems, Linear Algebra, Computer Programming, Statistics, Information Retrieval

GPA: 8.53 / 10 (Equivalent to GER 1.18/4)

Work Experience

Sept 2023 – **Technical Manager (Promoted from Trainee), Bharat Petroleum Corporation Limited, Mumbai,**
Sept 2025 **India.**

- Developed and tested software pipelines for data collection, processing, and reporting using Python.
- Worked with databases and structured data to support measurement and analysis tasks.
- Debugged and validated data flows across integrated software systems.
- Collaborated with engineers to ensure reliable system behavior and outputs.

Jan 2023 – **Machine Learning Engineer (Full-Time), Qantrium.ai, Remote.**

- Sept 2023
- Implemented and validated machine learning models on large real-world datasets using Python.
 - Designed data-driven analytics pipelines to optimize chatbot performance and customer engagement.
 - Analyzed user interactions to improve response quality and system performance.

Nov 2021 – **Data Scientist Intern, Qantrium.ai, Remote.**

- Jan 2022
- Built OCR-based system for bank name identification using Python.
 - Automated transaction classification and data extraction pipelines.
 - Implemented and validated machine learning models on large real-world datasets, including preprocessing, training, tuning, and evaluation

May 2021 – **Machine Learning Intern, Qantrium-Tech, Remote.**

- July 2021
- Assisted with documentation of system logic and model behavior.
 - Designed a URL-company mapping algorithm achieving 90% accuracy using Python.
 - Supported testing, quality assurance, and optimization of automated ML pipelines.

Research & Projects

May 2022 – **Self-Supervised Multimodal Learning, Goethe University Frankfurt (DAAD Summer Research).**

- July 2022
- Applied Grad-CAM to visualize text-image relations in ALBEF using Python.

Dec 2021 – **Retrosynthetic Planning (Drug Discovery)**, *IIIT Hyderabad*.

Mar 2022 ○ Investigated Graph Neural Networks for molecular property prediction and autonomous molecule design using Python.

Publications

2021 **Multilingual Hate Speech and Offensive Content Detection using Modified Cross-entropy Loss.**

FIRE 2021 (ACM).

Authors: Arka Mitra, **Priyanshu Sankhala**

ceur-ws.org/Vol-3159/T1-34.pdf

Achievements & Honors

May – July **DAAD WISE Scholarship.**

2022 Selected among **124 students** across India for a funded research internship in Germany.

Skills

Programming Python, Julia, data analysis, Python (advanced), C/C++ (systems-level), C#

Software and SQL, GIT, testing, documentation, TensorFlow, PyTorch
Testing

Core Subjects Machine Learning, Deep Learning, NLP, Data Mining, Pattern Recognition

Languages German (A2), English (C1), Hindi (Native), French (A1)

Extracurricular Activities

Dec 2025 – **Studentenwerk – TU Dresden**, *TU Dresden*.

Present Supporting coordination and communication across diverse student groups, from 9 dormitories into a community gatherings

Oct 2025 **Volunteer, Bonding-studierendeninitiative e.V.**, *TU Dresden*.

Team member organizing Die Messe (career event) annually.