

Rahul Bedjavalge
Machine Learning Intern | AI/ML Researcher
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EDUCATION

IU INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

Master of Artificial Intelligence

Berlin, Germany

Apr 2024 - Present

- Focused on developing advanced AI models and gaining practical experience through industry projects.
- Key coursework: Machine Learning, NLP, Deep learning,

PROFESSIONAL EXPERIENCE

iMouse Solution

Machine Learning Engineer (Intern)

Berlin, Germany

Aug 2024 – Present

- Data Collection and Preprocessing: Gathering and preparing visual data from movie clips, trailers, or related sources.
- Developed and trained custom object detection models using YOLO (You Only Look Once) architecture.
- Analysis: Analyzing model results and optimizing performance for accuracy and efficiency.
- Conducted literature reviews on current state-of-the-art methods in video object detection and annotation tools, and adapted best practices to our internal pipeline.
- Utilized Roboflow for data augmentation, labeling, and model management to improve model performance and efficiency.
- Conducting ongoing R&D on integrating real-time surveillance systems (ZoneMinder) with lightweight ML hooks for smart alerting currently experimenting with object class-based alert filters and latency reduction techniques.

INFINITE VARIABLE PVT LTD

Technology Specialist

Pune, India

Dec 2022 – June 2024

- Led cross-functional AI initiatives, partnering with academia to address client challenges.
- Conducted thorough market research to understand industry trends, customer preferences, and competitive landscapes.
- Excelled in B2C e-commerce by applying data analysis to enhance operations and make informed decisions.
- Demonstrated strong analytical skills in managing complex technical projects and ensuring successful execution of technology initiatives.

CERTIFICATIONS AND PROJECTS

ANIMAL IDENTIFICATION - MICE CLASSIFICATION

Machine Learning Model

July 2024

- Developed a machine learning model using YOLOv8 to distinguish between dotted and striped mice. Extracted and labeled image data from video, optimizing model performance through rigorous training. Built a high-performance model using a Roboflow dataset generated from video frames.. Achieved high accuracy, contributing valuable tools for biological research and wildlife monitoring.

CERTIFICATIONS

- AWS Artificial Intelligence Practitioner Learning Plan (July 2025)
- Certificate in Data Analytics from NMD Pvt Ltd (Jan 2023 - Apr 2023)
- Full Stack Development Certifications (Jul 2022 - Dec 2022)
- Participation Certificate in Robocon 2017

SKILLS & PERSONAL

Programming Languages: Python , React, Javascript

Machine Learning & AI: TensorFlow, PyTorch, Keras, YOLO, Transformers

Data Analysis & Tools: MS-Excel, Pandas, NumPy, OpenCV, Roboflow, CVAT

IT: Office Package (Word, Excel, PowerPoint, Access), Jira, Google Workspace, aws

Language: German (basic) , English (fluent), Hindi (Fluent) , Marathi(Native)

Interests: Research and Innovation, Generative AI, Traveling , Exploring New Technologies