

# RAHUL BEDJAVALGE

Warschauer Straße 58, Berlin, Germany

+49 155 6037 5039 Gmail

LinkedIn GitHub Portfolio

## Professional Summary

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Technical product-focused AI engineer with 3+ years building data-driven features end-to-end, from problem framing and requirements to delivery with engineering teams. Strong hands-on background in LLMs, RAG, and ML pipelines, and comfortable using data analysis to understand user needs and drive measurable improvements. Experienced in stakeholder communication and aligning technical decisions with business outcomes. Master's in AI (near completion) in Germany.

## Technical Skills

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**Product & Delivery:** requirements gathering, user stories (basic), task breakdown, feature prioritization, MVP planning support, sprint support

**Programming:** Python, JavaScript, SQL

**AI & LLMs:** LLM APIs (OpenAI), Prompt Engineering, Transformers, Embeddings, PyTorch, TensorFlow, Keras, CNNs, Deep Learning, YOLO

**Backend & Integrations:** FastAPI, REST APIs, Webhooks

**Databases & Tools:** PostgreSQL (Supabase), Supabase Auth, RLS, Pandas, NumPy, EDA, MS Excel

**Dev & Cloud:** Git, GitHub, Docker, AWS, Jira, n8n

## Professional Experience

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### iMouse GmbH

Aug 2024 – Present

*Machine Learning Engineer (Intern)*

*Berlin, Germany*

- Owned requirements for monitoring and alerting features (rules + ML), aligning stakeholders and engineering on scope and acceptance criteria
- Designed decision logic and explainability for alerts to improve trust and usability in production workflows
- Built and iterated data pipelines for video-based detection, improving model reliability and inference efficiency through evaluation and tuning
- Analyzed model performance and optimized accuracy, efficiency, and inference speed
- Applied state-of-the-art video object detection research, adapting best practices into internal ML pipelines
- Built data augmentation, labeling, and model management workflows using Roboflow
- Integrated lightweight ML hooks with ZoneMinder to support real-time surveillance and smart alerting

### Infinite Variable Pvt. Ltd.

Dec 2022 – Jun 2024

*Technology Specialist*

*Pune, India*

- Worked on an event management platform and helped build features from start to finish (planning, development, testing, launch)
- Led cross-functional AI initiatives in collaboration with academic partners
- Performed market and competitive analysis to support technology strategy
- Supported day-to-day coordination between tech and non-tech teams and shared regular progress updates
- Created and maintained basic documentation (feature notes, API notes, how-to guides) for the team
- Applied data analysis in B2C e-commerce to improve decision-making
- Managed and delivered complex technical projects aligned with business goals

### RoboticsDNA

Mar 2021 – Nov 2022

*Technology Head*

*Pune, India*

- Led a 5-member cross-functional technical team to deliver and launch an e-commerce platform
- Reduced issue resolution time by 25% by streamlining support processes and resolving complex technical issues
- Applied data-driven analysis to identify process improvements and enhance operational efficiency
- Implemented system optimizations improving application performance and user satisfaction

## Education

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### IU International University of Applied Sciences

Apr 2024 – Present

*M.Sc. in Artificial Intelligence*

*Berlin, Germany*

- Master's Thesis: *iMouseGuard – Behaviour-Aware Alerting Framework for Automated Home-Cage Mouse Monitoring*
- Key Coursework: Machine Learning, Deep Learning, NLP, Computer Vision

### Padmabhooshan Vasantdada Patil Institute of Technology (PVPIT)

Jul 2015 – Jun 2019

*Bachelor of Engineering (B.E.) in Electronics and Telecommunications (CGPA: 7.8)*

*Pune, India*

## Projects

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### Tinytinyevents (MVP)

Feb 2026

*Personal Project*

- Built a poster-to-event web app that converts offline city posters into shareable, searchable event pages.
- Implemented an upload → Supabase Storage/DB → AI extraction (OpenRouter Nemotron VL) → draft verify/edit → publish workflow with confidence + evidence.
- Developed public event listing + event detail pages with add-to-calendar links and a

### LLM Financial Statement Copilot (MVP)

Dec 2025

*Personal Project*

- Built an LLM-powered financial analysis copilot integrating structured data, heuristic reasoning, and automated explanations
- Designed AI-driven analysis workflows combining LLM outputs with baseline models and automated decision logic
- Built FastAPI backend + interactive UI to test user flows and iterate based on feedback loops

### BlogBuilder AI

Aug 2025

*Personal Project*

- Built a production-ready AI blog platform that generates full blog posts from a single-word prompt using OpenRouter API, with prompt customization via a dedicated Next.js API route.
- Implemented strict one-word validation end-to-end (real-time frontend checks + server-side enforcement) to prevent bypass and improve input safety and quality.
- Shipped a responsive UI with Next.js 14 + TypeScript + Tailwind CSS, deployed on Vercel.

### Animal Identification – Mice Classification

July 2024

*Machine Learning Project*

- Built YOLOv8-based object detection model to classify dotted vs striped mice
- Extracted and labeled video frames; created Roboflow dataset
- Achieved high classification accuracy, supporting biological research use cases

## Research Work (Academic)

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- **AI in Education (AIED): Research Trends & Topics** — Conducted structured online research and a literature review to identify key themes (personalized learning, assessment/feedback, predictive analytics, ethics) and summarized findings into a concise report and slide-style notes.
- **AI in FinTech: Use Cases & Landscape (Quick Research)** — Compiled reliable sources (papers and industry reports) and organized insights into categories (fraud detection, credit scoring, AML/KYC, risk, personalization). Produced a short research brief with key takeaways.

## Certifications

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**Prompt Engineering & Programming with OpenAI:** Columbia+ (Certificate Link)

**Machine Learning I:** Columbia+ (Certificate Link)

**Developing Generative Artificial Intelligence Solutions:** Amazon Web Services (AWS)

**Developing Machine Learning Solutions:** Amazon Web Services (AWS)

**Responsible Artificial Intelligence Practices:** Amazon Web Services (AWS)

## Languages

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English (Fluent), German (A2 – progressing to B1), Hindi (Fluent), Marathi (Native)