

ROHAN BHATANE

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EDUCATION

Northeastern University; Masters of Science in Artificial Intelligence

Courses: Deep Learning, Programming Design Paradigm, RSN, Mobile Robotics

Sep 2023 - Dec 2025

Boston, MA

MIT WPU, Bachelors of Technology in Computer Science and Engineering

Courses: Mathematics, DSA, Machine Learning, Data Warehouse and Data Mining

Aug 2019 - May 2023

Pune, MH

EXPERIENCE

Renal Research Institute

Data Scientist Intern

Jun 2025 - Sep 2025

New York City, NY

- Built **agentic RAG** nutrition app using Android Studio with **FAISS vector database** and GPT-4o to filter 10,000+ recipes against patient-specific renal restrictions, reducing meal planning time from hours to under 10 seconds
- Deployed **multi-agent system** using GPT-4o/GPT-4o-mini to generate culturally appropriate, medically compliant meal plans for dialysis patients, improving patient satisfaction by **50%** and reducing manual dietitian workload
- Performed **EDA, preprocessing**, and **feature engineering** on 100,000+ dialysis records in **SageMaker**, training **XGBoost** model to predict body fluid levels (**$R^2=0.92$**) and enabling BCM-equivalent capabilities for clinics without specialized machines

ADAIQ (Startup)

Generative AI Intern

Jul 2024 - Apr 2025

Boston, MA

- Accelerated product development decisions by **4x** by building LLM-powered sentiment analysis pipeline to extract customer insights and patterns from shoe feedback data
- Developed Python automation pipeline with GPT-4o to generate client-ready reports with visualizations and AI summaries, reducing manual report creation time for product teams
- Collaborated on **CI/CD** pipeline development using **AWS Glue**, **Step Functions**, and **Athena** to integrate Generative Design models into production data flow with analytics layer for client-facing visualizations
- Built 2D-to-3D mesh generation model using **Zero123** and **MiDaS** models on **V100** GPUs to create shoe component prototypes, accelerating design iteration cycles by **40%**

Bizamica Software

Machine Learning Intern

Mar 2022 - Jun 2022

Pune, MH

- Developed ML models using **OpenCV**, **CNN**, and Azure OCR with **NLP** techniques (**POS**, **NER**) for document image processing, achieving **97%** accuracy in checkbox and radio button data extraction
- Integrated ML/NLP capabilities into IZDOX platform, boosting operational efficiency by **95%** in automated PDF and scanned document processing workflows

PROJECTS

PlanMate | React, NodeJS, Typescript, LLMs | [Link](#)

Sep 2025

- Full-stack travel planning app using GPT and Gemini multi-agent system to convert natural language requests into personalized itineraries with Google Maps and Ticketmaster APIs, reducing research time from hours to under 20 seconds

Mental Health Chatbot | Python, vLLM, Modal, LoRA | [Link](#)

Jan 2025

- Fine-tuned Llama-3.1-8B using LoRA on Modal H100, achieving 7% empathy improvement while maintaining safety on 16K mental health conversations
- Deployed vLLM inference API on Modal A100 with async batch processing for 32 concurrent requests and cost-efficient serving

Image Processor | Java, Java Swing | [Link](#)

Dec 2023

- Programmed a scalable image processing software in Java using MVC architecture with Java Swing UI, implementing features including compression, blur effects, image splitting, and RGB histogram plotting

TECHNICAL SKILLS

Languages: Python, C++, R, TypeScript, HTML, CSS, SQL

Libraries/Tools: AWS, Scikit-learn, LangGraph, MCP, Pandas, Vector DB, TF-Keras, PyTorch, OpenCV, Android Studio, CUDA

Areas: Deep Learning, Agentic AI, Data Science, MLOps, Prompt Engineering, CV, RL, Data Engineering, Product development

Certifications: AI Agents Course (Hugging Face), Neural Networks and Deep Learning, Applied ML, Introduction to Data science in python (Coursera)