

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 <i>Data Scientist Intern</i>	Jun 2025 - Sep 2025 New York City, NY
<ul style="list-style-type: none">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 secondsDeployed 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 workloadPerformed EDA, preprocessing, and feature engineering on 100,000+ dialysis records in SageMaker, training XGBoost model to predict body fluid levels (R²=0.92) and enabling BCM-equivalent capabilities for clinics without specialized machines	
ADAIQ (Startup) <i>Generative AI Intern</i>	Jul 2024 - Apr 2025 Boston, MA

<ul style="list-style-type: none">Accelerated product development decisions by 4x by building LLM-powered sentiment analysis pipeline to extract customer insights and patterns from shoe feedback dataDeveloped Python automation pipeline with GPT-4o to generate client-ready reports with visualizations and AI summaries, reducing manual report creation time for product teamsCollaborated 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 visualizationsBuilt 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%	
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Bizamica Software <i>Machine Learning Intern</i>	Mar 2022 - Jun 2022 Pune, MH
<ul style="list-style-type: none">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 extractionIntegrated 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Fine-tuned Llama-3.1-8B using LoRA on Modal H100, achieving 7% empathy improvement while maintaining safety on 16K mental health conversationsDeployed 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
<ul style="list-style-type: none">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)