

ROHAN BHATANE

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EDUCATION

Northeastern University, Boston, MA

September 2023 - December 2025

Khoury College of Computer Sciences

Master of Science in Artificial Intelligence

GPA: 3.83

Courses: Foundation of AI, Programming Design Paradigm, Machine Learning, Robotic Sensing and Navigation

Maharashtra Institute of Technology WPU, Pune, India

Bachelor of Technology in Computer Science and Engineering

August 2019 - May 2023

Related courses: Mathematics, AI, Data Structures and Algorithms, Data Warehouse and Data Mining

GPA: 3.7

TECHNICAL KNOWLEDGE

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

Libraries/Tech: AWS, PyTorch, TensorFlow, Linux, OpenCV, MySQL

Skills: Machine Learning, Deep Learning, Reinforcement Learning, Generative AI, Computer Vision, Natural Language Processing, LLMs, Data Engineering, App Development

WORK EXPERIENCE

Renal Research Institute, New York City, USA

June 2025 - Present

Data Scientist Intern

- Developed a cross-platform app using **RAG-based LLMs**, **multi-agent** architecture, and **FAISS** for efficient semantic retrieval, delivering personalized kidney-friendly food recipes tailored to dietary restrictions and user preferences
- Analyzed **global dialysis patient data** using features collected during treatment to predict Body Composition Monitor (BCM) metrics such as fluid levels via **XGBoost**; developed and deployed scalable **ML** workflows on **AWS SageMaker**

ADA IQ, Boston, USA

Generative AI intern

July 2024 - April 2025

- Developed **LLM-based** AI models for consumer insights in footwear, including tools for extracting targeted insights for sentiment analysis, attribute scoring, and uncovering hidden feedback patterns, enhancing data-driven product decisions
- Designed an **automated report generation pipeline** to generate client-ready comparative insights for multiple shoe models, integrating attribute scores, visualizations, and key insights, eliminating the need for manual report creation
- Integrated text input** into **generative 2D and 3D design workflows**, enabling the creation of specific shoe components and accelerating product development timelines
- Developed and trained an AI model on a **V100 GPU** to convert 2D shoe images into high-quality textured 3D meshes using a two-stage framework with pre-trained models like **Zero123** and **MiDaS**
- Collaborating with the team to develop an end-to-end **CI/CD** pipeline using **AWS services**, such as **Glue**, **Step Functions**, **Athena** and more, integrating the Generative Design and Insights Models within the data flow and establish an analytics layer that displays model outputs and visualizations in client-facing applications

Bizamica Software, Pune, India

Machine Learning Intern

March 2022 - June 2022

- Spearheaded the research and development of machine learning model in python for advanced document image processing, significantly boosting operational efficiency through enhanced PDF and scanned document capabilities
- Formulated and optimized a machine learning model utilizing **OpenCV** and **CNN** for precise checkbox and radio button detection, slashing manual data entry by **95%** through accurate text extraction of key-value data pairs using **Azure OCR**
- Executed **NLP** techniques, including **POS** and **NER** tagging for effective preprocessing and categorization of key-value data pairs, seamlessly integrating these enhancements into the company's **IZDOX** platform, achieving a **97%** accuracy and setting new industry standards