ROHAN BHATANE

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Available: Summer and Fall 2024 | bhatanerohan.github.io/

EDUCATION

Northeastern University, Boston, MA   September 2023 - Present

Khoury College of Computer Sciences   Expected - May 2025
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 Mining   CGPA: 9.06

TECHNICAL KNOWLEDGE

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

Libraries/Tech: PyTorch, TensorFlow, NLTK, Scikit-learn, matplotlib, Linux, OpenCV, MySQL, Docker, Tableau

Skills: Machine Learning, Deep Learning, Reinforcement Learning, Generative AI, Computer Vision, SLAM, Natural Language Processing, Data Analysis, ROS, Slurm, Git, EDA

Certificates: Neural Networks and Deep Learning, Applied ML, Introduction to Data science in python

WORK EXPERIENCE

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 advanced **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
- Designed a rule engine, tailored for integration with the company's machine learning platform, enabling clients to input and train their specific document processing use cases

Verzeo, Pune, India

Robotics Trainee   April 2021 - May 2021

- Engineered various **embedded systems** project using **ROS** (Robotic Operating System) and Arduino microcontroller, including enabling simultaneous communication between multiple machines, constructing a maze solving car

Northeastern University, Boston, USA   April 2024 - Present
Event Assistant (Part-time**)**

- Managing multiple departments to ensure all needs were met during campus events, responsibilities included overseeing merchandise inventory and coordinating staff schedules throughout the events

PERSONAL PROJECTS

Traffic Forecasting using Graph Neural Network and LSTM   October 2023 - December 2023

- Project aimed to enhance traffic speed forecasting by integrating **graph neural networks (GNNs)** for spatial analysis with **LSTM** for temporal trends, addressing the interconnected nature of road segments and historical data patterns
- Demonstrated marked improvement over basic forecasts, underscoring the model's capability to accurately predict future traffic speeds by leveraging **both spatial and temporal** data insights

Customer Segmentation using K-means   June 2023 - August 2023

- Refined a dataset of 542,000 rows and 8 columns, tackling **data cleaning**, missing values, and type conversions, computed RFM (Recency, Frequency and Monetary value) metrics to assess customer purchase behaviors and values
- Leveraged **K-Means clustering** in python for customer segmentation based on RFM scores, developing targeted marketing strategies to boost retention and increase revenue