

ROHAN BHATANE

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

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, Object Oriented Programming	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, Slurm, Git, Langchain, 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
<ul style="list-style-type: none">Spearheaded the research and development of machine learning model for advanced document image processing, significantly boosting operational efficiency through enhanced PDF and scanned document capabilitiesFormulated 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 OCRExecuted 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 rate and setting new industry standardsDesigned 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	

PERSONAL PROJECTS

BERT-Enhanced News Authenticity Analysis	January 2023 - April 2023
<ul style="list-style-type: none">Applied semantic similarity to identify fake vs. genuine news from accredited news sources like CNN, BBC, by fine-tuning a BERT model by leveraging transfer learning with the Stanford Natural Language Inference (SNLI) CorpusCreated an ETL pipeline utilizing NLTK library for keyword extraction through POS and NER tagging, coupled with web scraping APIs to collect and analyze authentic news content in real-time with the fine-tuned model achieving a 92% accuracy rate	
Image Processing Software	October 2023 - December 2023
<ul style="list-style-type: none">Implemented scalable and maintainable image processing software using Java adopted the Model, View, Controller (MVC) architecture, featuring advanced capabilities such as compression, blur effects, image splitting, and RGB histogram plottingDeveloped an interactive and intuitive user interface utilizing Java Swing, enhancing user engagement and functionality	
Traffic Forecasting using Graph Neural Network and LSTM	October 2023 - December 2023
<ul style="list-style-type: none">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 patternsDemonstrated 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
<ul style="list-style-type: none">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 for customer segmentation based on RFM scores, developing targeted marketing strategies to boost retention and increase revenue	