

Navkar Jain

Boston, MA | 857-693-8543 | n.jain001@umb.edu | www.linkedin.com/in/navkar-j-1b7594110
navkarjain.netlify.app | github.com/navkar98 | leetcode.com/navkar98

TECHNICAL SKILLS

- **Programming & Scripting:** Python, Java, JavaScript, HTML, CSS, React.js, Django, Flask, Node.js, and Spring Boot.
- **Frameworks & Libraries:** NumPy, TensorFlow, Keras, Scikit-Learn, JSP, PyTorch, Transformers, Kafka, Junit.
- **Databases & Tools:** SQL, MongoDB, AWS RDS (MariaDB), Oracle, Jira, WordPress.
- **DevOps & Cloud Services:** AWS (EC2, Lambda, S3), Azure, GIT, Docker, Kubernetes.

PROFESSIONAL EXPERIENCES

Software Developer | VDC at UMass Boston | Boston, MA

(Mar'23 - Present)

- Updated and extended webpages using Divi WordPress ensuring 100% updated information and better user experience.
- Developed a migration script for over 30,000 files with Microsoft Graph API, streamlining and enhancing file retrieval by 50%.
- Revolutionized ROI analysis by automating reports in Python mapping 6+ years of data and reducing manual time by 75%.

Backend Engineering Intern | Building Assure PBC | Concord, MA (Remote)

(Fall '23; Fall'24)

- Optimized efficiency by redesigning an alert generation script through Azure functions, dynamically handling 20+ alerts.
- Incorporated depth-first-search algorithm and data frame to solve nested conditions and scalability problems by O(Vertices).
- Developed RESTful APIs for utility consumption, facilitating data-driven decisions and reducing consumption costs by 20%.

Senior Software Engineer | Radix Analytics Pvt. Ltd. | Ahmedabad, India

(Nov '18 - Jul '22)

- Led backend development of the RisQ model for a fintech company, leveraging Django MVT and Agile methodology, resulting in ₹25 Lakh monthly revenue.
- Optimized performance by implementing a scalable scoring system for 15,000 companies, processing data from over 60 tables to generate daily scores dating back to 2015.
- Enhanced system efficiency by 80% through optimized Pandas DataFrame and Redis integration, reducing database calls and enabling server-side parallel processing.
- Improved frontend features including server-side rendering, REST API integration, and SSO, increasing data accessibility and system interaction by 90%.
- Streamlined reporting by creating a Kafka-based process to generate ~1,000 reports daily, reducing reporting time by 50%.
- Boosted user engagement with data visualizations using JavaScript and Plotly, advancing ad management capabilities and analysis by 35%.

RESEARCH

- **User-Centric Adaptive Regularization (Ongoing):** Developing adaptive regularization techniques to reduce popularity bias in collaborative filtering systems.
- **Fairness-Aware Explanations in Recommender Systems (Ongoing):** Proposing multi-dimensional explanations to enhance fairness in recommendation algorithms.

ACADEMIC PROJECTS

Medical Chatbot | University of Massachusetts Boston

(May '24 - Sep '24)

- Developed a RAG pipeline using langchain, faissDB and GroqCloud to access the Llama 3 model and indexed 100+ site info.
- Classified a user query to a medical related question by exercising with several prompting techniques.

Mashup Tag Recommendation | University of Massachusetts Boston

(Jan '24 - May '24)

- Developed a mashup tag recommendation system, utilizing Llama 2, Mistral LLMs, and a Transformer model to analyze ~6,000 mashups, enhancing tag description accuracy and content understanding.

EDUCATION

University of Massachusetts Boston

PhD in Computer Science | GPA: 3.93

(Sep '24 - May '27)

- **Experience:** **Graduate Teaching Assistant** for Intermediate Computing with Data Structures for Fall '24.

Master of Science in Computer Science | GPA: 3.93

(Sep '22 - May '24)

- **Courses:** Analysis of Algorithms, Computer Vision, Machine Learning, Object-Oriented Programming, Database App Development.
- **Experience:** **Graduate Teaching Assistant** for Intro to Engineering, Circuit Analysis, and Senior Design Project for Spring '24.