

MEGHNA BAJORIA

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EDUCATION

Master of Science in Artificial Intelligence

Aug 2022 – May 2024

San Jose State University, San Jose, CA

Bachelor of Technology in Information Technology

Jul 2017 – Jun 2021

Vellore Institute of Technology, Vellore, India

TECHNICAL SKILLS

- **Languages:** Python, R, Java, C++
- **Machine learning packages:** OpenCV, Matplotlib, NumPy, Pandas, Scikit-Learn, PyTorch
- **Tools & Frameworks:** Rasa, Colab, Jupyter notebook
- **Operating Systems:** Linux, Windows, MacOS
- **Development:** Spring Boot, Apache Kafka, Vue.js, Junit, ElasticSearch
- **Other:** Natural language processing, Object recognition, REST APIs, CI/CD, Git, Stash, Jira, Jenkins, Kibana,

COURSEWORK

Artificial Intelligence, Statistics for Engineers, Applied Linear Algebra, Discrete Mathematics & Graph Theory, Applications of Differential Equations, Machine Learning, Artificial Intelligence, Data Mining, Maths Foundation for Decision and Data Science in R, Data Structures & Algorithms,

WORK EXPERIENCE

Software developer, The Mifos Initiative - Google Summer of Code [\[Link\]](#)

June 2023 – Present

- Developing a chatbot utilizing Java and Rasa Natural Language Processing (NLP) framework. Involved in designing and coding conversational flows, and training the chatbot to understand user queries
- Leveraged Java programming skills to develop the backend functionalities and integrate Mifos APIs, while leveraging Rasa's NLP capabilities for effective natural language understanding

Software engineer, Quinbay Technologies – Blibli.com, India

Feb 2021 – Jun 2022

- Automated the manual process of uploading products and saved business team 100 hours per week. Went on to optimize the code to improve performance by **86%**
- Led a team of 4 to revamp multiple microservices to build price segmentation model in the application that positively impacted the GMV of the application
- Improved search query performance by **58%** which enhanced user experience and took complete ownership of handling Elastic Search for team

Software engineer intern, Capgemini, India

May 2019 – Jun 2019

- Traversed various log files generated from system, extracted required information using C++ and stored it in the SQL database
- Improved code execution time by **80%** using C++ STL library
- Developed a program to retrieve necessary information from the database and to display it to the user

PROJECTS

Vehicle detection and counting using YOLO [\[Link\]](#)

October 2022 - Present

- Developed a vehicle counting system using YOLOv8 to count every vehicle detected in the input video
- Implemented an intelligent tracking mechanism that ensures vehicles are not re-counted once they have been initially detected, improving the accuracy and reliability of the counting algorithm

Pneumonia Detection using Deep Learning [\[Link\]](#)

Aug 2020 – Dec 2020

- Collaborated with 2 members to build a deep-learning model for early and accurate detection of pneumonia from chest X-ray images
- Applied image processing and image augmentation techniques to diversify image dataset
- Performed comparative analysis to determine the best model using three neural network architectures - ResNet, SqueezeNet and DenseNet