Bhargavram Gurram

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science *August 2025*
Relevant Coursework: Operating Systems, Design and Analysis Computation Algorithms, Intro to Artificial Intelligence, Intro to Machine Learning, Design Patterns, Database Systems, Programming Languages
GPA: 3.5/4.0; $1,000 merit based scholarship for academic excellence and leadership

TECHNICAL SKILLS

Languages: C, C++, R, Javascript, Python, Java, MATLAB, SQL, Angular
Libraries/Frameworks: Tensorflow, PyTorch, Scipy, Numpy, Pandas, NLTK, Keras, Matplotlib, Flask, Hadoop, PySpark
Other: MongoDB, Rest APIs, React, Node.js, HTML, CSS, TailwindCSS, Git, AWS, MySQL, Anaconda, Redis

PROFESSIONAL EXPERIENCE

Employwise, *Software Engineer Intern* | Remote *February 2023 - July 2023*
- Team-up with colleagues to design and implement 10+ frontend screens, integrate APIs, and enhance UI/UX, reducing support tickets by 40% through effective communication and user-focused design
- Launched an analytics dashboard, simplifying client workflows and reducing effort by 30% via real-time insights
- Expanded technical expertise by exploring backend fundamentals in Java Spring Boot

Dunzo, *Software Engineer - Backend Intern* | Remote *January 2023 - June 2023*
- Collaborated with the backend engineering team to build and optimize scalable microservices using Python(Django) and Go, supporting real time logistics and delivery workflows used by 1M+ users
- Developed and integrated RESTful APIs for internal services, reducing latency by 18% and improving service reliability in high-traffic scenarios
- Engineered optimized data schemas within PostgreSQL and MongoDB, thereby reducing database query response times by 60% and improving overall system performance for 500,000+ daily users
- Containerized services using Docker and deployed to Kubernetes, enabling smooth CI/CD workflows and reducing deployment time by 40%

RESEARCH EXPERIENCE

AI-Driven Histopathology Analysis for Lung Cancer Prognosis, *Research Assistant* | Binghamton *March 2025 - August 2025*
- Pioneered a deep learning pipeline employing BiomedParse, CellViT++, and Stardust models for automated cell-level segmentation of lung cancer histopathology slides, enhancing high-risk patient stratification accuracy by 15%
- Engineered a scalable data preprocessing pipeline incorporating multi-scale windowing, image down-sampling, and union mask generation, optimizing complex image data for deep learning model training and inference
- Designed and implemented robust model validation frameworks using advanced metrics (DSC, HD95, ASSD) and statistical analysis (ANOVA, t-tests, post-hoc Dunnet's tests) to rigorously evaluate segmentation performance
- Incorporated radiomics features, extracted with Python, into machine learning models, improving lung cancer survival prediction accuracy by 15% and informing treatment strategies for over 80 patients
- **ClinSegAI: A Post-Processing Framework for Superior Histopathology Segmentation Accuracy, Radiomics Feature Preservation, and Quantitative Analysis** – *Under review at Computers in Biology and Medicine*

PROJECT EXPERIENCE

Medical Chatbot for Disease Prediction | *Python, Flask, ReactJS, TailwindCSS, SVM, Logistic Regression*
- Partnered with a team of four to design a medical chatbot using Python, ReactJS, and Flask, with a responsive interface styled in TailwindCSS for disease prediction based on user symptoms
- Collected and preprocessed a Kaggle dataset, implementing machine learning models for symptom analysis, achieving 79% accuracy
- Enhanced diagnostic capabilities with detailed disease descriptions and precautions, reaching a 94% accuracy rate in final disease prediction, refining the model and user experience

Fitness Workout app | *ReactJS, TailwindCSS, RapidAPI, Netlify*
- Developed and launched a responsive web application using ReactJS and TailwindCSS, showcasing a wide range of workout exercises categorized by body part
- Integrated RapidAPIs to fetch and display workout videos, enhancing the app's content with high-quality and up-to-date exercise tutorials
- Deployed the application on Netlify, optimizing load times and ensuring a friendly user experience across devices