Madhava Reddy Vempalli Mugenna Gari

(602) 570-1103 madhavareddy@asu.edu www.linkedin.com/in/vmmadhava

Education

Arizona State University — Tempe, Arizona
Master of Science in Computer Science — *August 2023 - Expected May 2025*

Indian Institute of Technology (BHU) Varanasi — Varanasi, India
Bachelor of Technology in Computer Science and Engineering; CGPA 8.36/10 — *July 2017 - May 2021*

Experience

Addverb Technologies — Noida, India
Software Engineer (Graduate Engineer Trainee) — *August 2021 - October 2022*

- Developed real-time operations functionality and API development involving warehouse management, expanding the system's overall scope and allowing for more comprehensive data and statistical analysis, cutting down on debugging costs by 30%
- Investigated discrepancies in the underlying system through detailed RCAs; addressed core issues and streamlined operations, resulting in a 50% reduction in operational difficulties with a warehouse
- Interacted with different teams to understand the precise scope of development from front-end to back-end and implemented it accordingly by guiding relevant teams to align with current development
- Achieved mastery over Spring Boot framework and MySQL while working on developing warehouse systems

Samsung Research and Development Institute — Noida, India
Software Developer Intern — *May 2020 - July 2020*

- Conducted dense captioning on videos with transformer-based models known for superior learning capabilities
- Produced high-quality captions from respective events in videos by employing a pre-trained bi-modal transformer model that takes both audio and videos as features from sample videos for dense captioning in videos

Projects

Cloud Computing Project

- Utilized my skills in managing various AWS IaaS resources and AWS Lambda to build a scalable and successful application, resulting in a robust and efficient cloud-based application
- Leveraged my knowledge in multi-tiered cloud application development to create application with distinct App and Web tiers with auto-scaling functionality in the App tier code, allowing the application to dynamically scale on demand and seamless integration
- Applied my understanding of machine learning models to integrate a face recognition model, thereby enhancing the applications functionality and user experience

Breast Cancer Classification

- Inspired to detect breast cancer by leveraging biopsy images provided by the standard dataset, used various feature extraction techniques on the available training set, resulting in an 85% accuracy upon tuning hyperparameters, providing diagnosis for patients in real-time
- Designed an accessible Django web application to take a biopsy image as input and return Malignant or Benign with deployed trained model

Programming Skills

Languages: Java , C/C++ , Python , MySQL , Bash **Technologies**: Springboot , Git , Python socket , Django , Flask , OpenCV , Sklearn , Maven , Linux , NetBeans , Postman , DBeaver , Docker , AWS , Redis