Madhava Reddy

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EDUCATION

Arizona State University   Tempe, Arizona
Master of Science in Computer Science; CGPA 4/4   *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 system's overall scope and allowing for more comprehensive data and statistical analysis, cutting down on debugging costs by 30%
- Orchestrated and led cross-functional team in conducting comprehensive Root Cause Analyses, addressing core issues and streamlining operations, resulting in a 50% reduction in warehouse operational difficulties
- Guided different teams to understand 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*

- Pioneered implementation of state-of-the-art transformer-based models for dense video captioning, enhancing video content accessibility and search capabilities
- Produced high-quality captions from respective events in videos by employing a pre-trained bi-modal transformer model taking both audio and videos as features from sample videos for dense captioning in videos
- Spearheaded implementation of advanced transformer-based models for dense video captioning, fostering collaboration between cross-functional teams and driving adoption of innovative video analysis technique

PROJECTS

Cloud Computing Project

- Architected scalable AWS application using IaaS resources and Lambda, increasing performance by 40% and reducing operational costs by 25%
- Developed multi-tiered cloud application with auto-scaling App tier, reducing response time by 60% and handling 3x traffic spikes without performance degradation
- Pioneered integration of cutting-edge face recognition ML model, addressing user authentication challenges and enhancing application security

Breast Cancer Classification

- Led development of innovative breast cancer detection system, combining ML expertise with web development skills to create user-friendly Django application, bridging gap between complex AI technology and medical professionals' needs
- Inspired to detect breast cancer by leveraging biopsy images provided by standard dataset, used various feature extraction techniques on 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 , JavaScript , Bash   **Technologies:** Springboot , Git , Python socket , Django , Flask , React , OpenCV , Sklearn , Maven , Linux , NetBeans , Postman , DBeaver , Docker , AWS , Redis