

Madhava Reddy Vempalli Mugenna Gari

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EDUCATION

Arizona State University

Master of Science in Computer Science

Tempe, Arizona
August 2023 - Expected May 2025

Indian Institute of Technology (BHU) Varanasi

Bachelor of Technology in Computer Science and Engineering; CGPA 8.36/10

Varanasi, India
July 2017 - May 2021

EXPERIENCE

Addverb Technologies

Software Engineer (Graduate Engineer Trainee) ·

Noida, India
August 2021 - July 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

Software Developer Intern ·

Noida, India
May 2020 - June 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

Overlapping Community Detection

- Geared toward detecting communities in complex networks that are overlapping, like in any social media network, instead of yielding disjoint sets of communities typical of general algorithms
- Leveraged flow-based tolerance rough set theory to determine features of each node with a Multi-Objective Community detection fitness function for a novel overlapping community detection

Supermarket Management

- Designed and developed a management website utilizing spring MVC for general retail shops, to track and manage the details of stock brands, invoices, expenses, employees, customer details, and discounts using DBMS

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 **Technologies:** Springboot , Git , Python socket , Django , OpenCV , Sklearn , Maven , Pip , Linux , NetBeans , Postman , DBeaver