Madhava Reddy Vempalli Mugenna Gari

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EDUCATION

Arizona State University　　　　　　　　　　　　　　　　　　　Tempe, Arizona
Master of Science in Computer Science　　　　　　　　　　　　　*Aug 2023 - Aug 2026*

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

EXPERIENCE

Addverb Technologies　　　　　　　　　　　　　　　　　　　　Noida, India
Software Engineer (Graduate Engineer Trainee) ·　　　　　　　　　*Aug 2021 - Jul 2022*

- Developed real-time operations functionality and API development involving warehouse management, expanding the system's overall scope and allowing for more comprehensive data statistical analysis
- Executed RCAs for discrepancies in underlying system and fixed core issues, cutting the number of operational difficulties with a warehouse in half
- 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 - Jun 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 like general algorithms
- By employing flow-based tolerance rough set theory to determine features of each node with a Multi-Objective Community detection fitness function, overlapping community detection became a success with a novel approach

Supermarket Management

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

Breast Cancer Classification

- To detect breast cancer by using biopsy images provided by the standard dataset, used various feature extraction techniques on the available training set, resulting in an excellent 85 percent accuracy upon tuning hyperparameters, providing diagnosis for patients in real-time
- For accessibility, designed a Django web application to takes a biopsy image as input and return Malignant or Benign with our trained model

PROGRAMMING SKILLS

Languages: Java , C/C++ , Python , MySQL　　**Technologies:** Springboot , Git , Python socket , Django , OpenCV , Sklearn , Maven , Pip , Linux , NetBeans , Postman , DBeaver