

NAGAVARAPU DIVYA CHARITHA

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Education

Vellore Institute of Technology

BTech in Computer Science Engineering - CGPA - 8.06*

2021 - 2025

Chennai, Tamilnadu

Narayana Junior College

AP State Board of Intermediate Education.- Percentage - 92.9%

2019 - 2021

Nellore, Andhra Pradesh

The Pragathi Maha Vidyalaya School

AP State Board of Secondary Education- GPA - 9.7

2018 - 2019

Nellore, Andhra Pradesh

Projects

Prediction of Knee Osteoarthritis Severity From X-rays | [Git Repo](#) November 2023 – March 2024

- Engineered an ensemble model integrating EfficientNet and DenseNet to classify knee osteoarthritis severity from X-ray images, achieving 94.76% classification accuracy.
- Implemented advanced preprocessing techniques, including CLAHE and data augmentation, resulting in a 20% improvement in dataset quality and enhanced model performance.
- Enhanced diagnostic accuracy and reliability, reducing misclassification by 25% in knee OA severity prediction, offering critical insights for clinical decisions.

Movie Booking System

September 2023 – October 2023

- Designed and implemented a MERN stack-based movie ticket booking system, enabling seamless ticket reservations for over 100 users with real-time booking confirmations.
- Revamped user interfaces for customers and theater administrators, optimizing movie scheduling and seat selection through seamless CRUD operations, reducing manual workload by 50%.
- Enhanced system efficiency, reducing ticket booking time by 40%, thereby improving user experience and satisfaction.

Publications

- Nagavarapu divya, charitha, et al. "Prediction of Knee Osteoarthritis Severity from X-Ray Images Using Ensemble Learning." 2024 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV). IEEE, 2024.

Technical Skills

Programming Languages: Python, Java

Web Development: HTML, CSS, Bootstrap, JavaScript, React, Git

Databases: MYSQL, MONGODB

Cloud Technologies: AWS

Coursework: OOPs, Data Structures and Algorithms, Operating Systems, Computer Networks, Database Systems

Certifications

- AWS Cloud Practionier [[View Certificate](#)]
- MERN Full Stack, Ethnus Codemithra [[View Certificate](#)]

Extracurricular activities

National Service Scheme (NSS)

VIT Chennai

- Led a beach cleaning initiative, removing 10 kg of plastic waste from local shores to raise environmental awareness and improve community health.
- Organised a 7-day special camp focused on social service, assisting local communities.