

GANESH ARIHANTH B

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<https://github.com/GaneshArihanth>

Education

CHENNAI INSTITUTE OF TECHNOLOGY

Bachelor Of Computer Science and Engineering (AIML)

CGPA: 9.24

2023 – 2027

Skills

Programming Languages

- Java
- C++
- Python

WebDevelopment

- HTML
- CSS
- JavaScript
- Native React
- React
- NodeJS
- ExpressJS
- moongose

DataBase Management

- mySQL
- NoSQL
- MongoDB
- Vision Control Git

Projects

Oil Spill Prediction System

Developed a system to predict oil spills using satellite data and machine learning.

- Integrated machine learning models with the Express.js backend using Flask.
- Fetched and stored vessel positions, weather data, and satellite images using multiple APIs.
- Deployed a full-stack solution with real-time tracking and visualization.
- Designed a MongoDB schema-less model for dynamic vessel data storage.
- Implemented an anomaly detection mechanism using vessel temperature changes. **Technologies:** React, Node.js, Express.js, MongoDB, Mapbox, Searoutes API, WeatherAPI, Google Earth Engine API.

GATE Preparation App

Designed and developed an application to assist students in preparing for the GATE examination.

- Implemented subject-wise question segregation and tracking for efficient study sessions.
- Integrated real-time quizzes and AI - Performance analytics to provide personalized feedback.
- Developed a seamless user experience with a React-based frontend and an Express.js backend.
- Used Firebase to store and retrieve user progress and test results. **Technologies:** React, Python, Express.js, MongoDB, FirebaseDB

Sentiment Analysis of Social Media Posts

Developed a machine learning model to analyze sentiment in social media posts using natural language processing techniques.

- Collected and preprocessed social media text data for sentiment classification
- Used NLP techniques like tokenization, stopwords removal, and word embeddings.
- Trained deep learning models (LSTM/Transformer) for sentiment analysis.
- Achieved **85%+ accuracy** in classifying sentiments as positive, negative, or neutral.
- Implemented using **Python, TensorFlow, and scikit-learn**.

Interactive College/University Website

Created a dynamic and responsive college website with React and Vite.

- Implemented modals, infinite scrolling, and theme switching for enhanced user experience.
Technologies: React, Vite, JavaScript, CSS.

Satellite Image Fetching Service

Developed a backend service to fetch satellite images using Mapbox API.

- Implemented dynamic image retrieval based on user inputs.
- Handled errors for API failures to ensure reliability. **Technologies:** Node.js, Express.js, Mapbox Static Images API, Axios.

Certifications

- Solved **600+ Questions in LeetCode**, Overall solved **1500+ Problems**
- Cisco Certified Certification in **Introduction to Cyber Security**
- Cisco Certified Certification in **Cyber Security Essentials**
- Cisco Certified Certification in **Network Essentials**
- Completed **Google Android developer virtual Internship**
- UiPath Certification in **Automation Explorer for Students**
- Coding Ninjas **Ninja Dominator League**
- HackerRank & Coding Ninjas Certification in **Basics of Java**
- HackerRank & Coding Ninjas Certification in **Basics of C++**
- UiPath Certification in **Automation Explorer Learnathon 2024**

Achievements & Extracurriculars

- Completed an internship developing an **Marketplace** using Firebase API and React.
- Achieved a **certificate in the NPTEL Deep Learning** examination.
- Actively contribute to open-source projects and technical communities.