# NIKHIL SAMBARAPU

Hyderabad, Telangana

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## SUMMARY

Full Stack Developer with experience in building secure and scalable applications using the MERN stack and deep learning frameworks. Skilled in C++, React, and Node.js. Solved over 400+ DSA problems and participated in national hackathons with top rankings.

## EDUCATION

**CMR College of Engineering and Technology**                    **2022 – 2026**
*B.Tech in Computer Science (AI-ML) – **CGPA: 9.0/10***                    *Hyderabad, Telangana*

## COURSEWORK

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Artificial Intelligence
- DBMS
- Machine Learning
- OOPS Concepts
- Deep Learning

## TECHNICAL SKILLS

**Languages:** C++, Python
**Web Development:** HTML, CSS, Bootstrap, TailwindCSS, JavaScript, React(basics), Node.js, Express.js
**ML & DL:** TensorFlow, Keras, Pandas, NumPy, Matplotlib, CNN

**Databases:** MySQL, MongoDB
**Tools:** Git, GitHub, Google Colab, Kaggle Notebooks
**Other Skills:** NLP (NLTK), REST APIs, JWT Authentication

## PROJECTS

**BeFit Buddy** ⬈ | Fitness Web Application
- Developed a responsive web platform using React and TailwindCSS, improving user engagement by 30%.
- Integrated Clerk for authentication and user profiles, increasing login reliability by 25%.
- **Tech Stack:** React, TailwindCSS, Framer Motion, Clerk, JavaScript

**Brain Tumor Detection** ⬈ | Deep Learning Imaging System
- Trained a CNN model using TensorFlow and Keras with 94% accuracy on MRI tumor classification.
- Enhanced segmentation quality by 15% with OpenCV preprocessing (thresholding, contouring, Gaussian filtering).
- **Tech Stack:** Python, TensorFlow, Keras, OpenCV, NumPy, Matplotlib

**FortiAuthentication (MERN Stack)** ⬈ | Authentication Platform
- Designed a JWT-secured MERN stack authentication system with encrypted sessions and role-based access control.
- Integrated Bcrypt, CORS, and NodeMailer for secure password storage and email verification.
- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, JWT, Bcrypt, NodeMailer

## ACHIEVEMENTS

- Top 10 among 130+ teams at HackSavvy-24, MGIT Hyderabad for an IoT-based security project. **Link**
- 15th position among 150+ teams at Codestorm 36-Hour Hackathon, NREC Secunderabad. **Link**
- Solved 400+ DSA problems across LeetCode, GeeksforGeeks, and CodeChef.

## LEADERSHIP & EXTRACURRICULAR

- Led a 4-member team in a deep learning project, improving accuracy and optimizing model performance.
- Mentored juniors in DSA and project development, conducting weekly code sessions.
- Completed certifications in AI, Full Stack Web Development, and Python for Data Science.

## CERTIFICATIONS

- **Full Stack Web Development** – GeeksForGeeks ⬈
- **IBM Z Datathon Challenge** – IBM ⬈
- **Object-Oriented Programming in Java** – Great Learning ⬈