

NIKHIL SAMBARAPU

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SUMMARY

Full Stack Developer and AI/ML Engineer with experience in building secure and scalable applications using the MERN stack and deep learning frameworks. Skilled in Python, 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

B.Tech in Computer Science (AI-ML) – CGPA: 9.0/10

2022 – 2026

Hyderabad, Telangana

COURSEWORK

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

TECHNICAL SKILLS

Languages: C, C++, Python

Web Development: HTML, CSS, Bootstrap, TailwindCSS, JavaScript, React, 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 📄