

AYUSH KUMAR

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LinkedIn — GitHub

EDUCATION

Vignan's Foundation for Science, Technology and Research, Guntur Bachelor of Technology in Computer Science and Engineering	May 2026
Relevant Coursework: Data Structures, OOP, Operating Systems, DBMS, Computer Networks, Compiler Design, AI, Software Engineering	GPA: 7.72/10.00

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, SQL

Web Technologies: HTML, CSS, React.js, Node.js, Express.js, REST API, Socket.io

Machine Learning: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Pandas, NumPy

Databases: MySQL, MongoDB

Tools & Platforms: AWS, Git, GitHub, VS Code, Flask

Specializations: Data Structures, Algorithms, System Design, Full-Stack Development, Deep Learning

PROJECTS

Lok Shikayat - Digital Complaint Management System

July 2024 - September 2024

Technologies: MongoDB, Express.js, React.js, Node.js, JWT, Socket.io, Cloudinary, Tailwind CSS

- Engineered full-stack MERN application streamlining complaint resolution workflow for 2,500+ active users
- Architected role-based access control system for 3 distinct user types with real-time Socket.io notifications, boosting user engagement by 40%
- Designed microservices-based backend architecture achieving 99.5% uptime and supporting 1,000+ concurrent users
- Optimized MongoDB queries and implemented indexing strategies, reducing average response time by 35%

Brain Tumor Detection System

June 2024 - October 2024

Technologies: Python, TensorFlow, Keras, OpenCV, Scikit-learn, Flask, NumPy, Pandas

- Developed CNN-DNN hybrid deep learning pipeline for medical image classification, achieving 98% accuracy on 10,000+ MRI scans
- Implemented advanced data augmentation techniques (rotation, flipping, scaling) using OpenCV, improving model generalization by 15%
- Deployed production-ready Flask API with RESTful endpoints, enabling real-time inference for clinical diagnostics
- Achieved 98% sensitivity and 93% specificity, surpassing industry benchmarks for medical imaging diagnostics

COMPETITIVE PROGRAMMING

- LeetCode:** Solved 352+ algorithmic problems across Data Structures and Algorithms

- CodeChef:** Achieved 3-star rating with 500+ problems solved, demonstrating strong problem-solving skills

- GeeksforGeeks:** Completed 324+ coding challenges covering diverse programming concepts

LEADERSHIP EXPERIENCE

Lead Coordinator - TCS Placement Drive

2023

Vignan's Foundation for Science, Technology and Research

- Spearheaded coordination of campus placement drive, managing logistics and communications for 2,500+ students
- Collaborated with TCS recruitment team to streamline interview scheduling and candidate assessment processes

Student Coordinator - VFSTR Cultural Events

2024 - 2025

Vignan's Foundation for Science, Technology and Research

- Led team of 10+ volunteers in organizing Mahotsav, Utsav, and Srujanankura events with 1,000+ attendees
- Coordinated event logistics, vendor management, and participant engagement activities

CERTIFICATIONS

- Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate - Oracle (December 2024)
- B2 English (Linguaskill Business) - University of Cambridge (February 2025)
- AI Azure Internship - Microsoft, Edunet Foundation, AICTE (May 2025 - June 2025)
- Sensors and Actuators - NPTEL (January 2025 - April 2025) - Score: 80/100
- Leadership and Teamwork - NPTEL
- Smart India Hackathon (SIH) - Participant