D R Anirudh Gudigar

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Shivamogga, Karnataka, India

EDUCATION

Jawaharlal Nehru National College of Engineering   Shivamogga, Karnataka

Bachelor of Engineering in Computer Science   *2023*

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Software Engineering
- CGPA: 8.9

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, SQL
Web Development: HTML, CSS, React.js, Node.js, Express.js, RESTful APIs
AI/ML Technologies: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
Tools & Technologies: Git, GitHub, Docker, Linux, Google Cloud Platform, Firebase
Databases: MySQL, MongoDB, PostgreSQL
Other Skills: Data Structures & Algorithms, System Design, Computer Networks, IoT, Agile Methodologies

PROJECTS

KenKen Puzzle-Based Secure Encryption   github.com/DodmaneAnirudh

C, C++, GCC, Visual Studio Code   *[October 2025]*

- Developed a unified, lightweight software prototype for securing data that is capable of encrypting and decrypting both text files and images using a KenKen puzzle-based cryptographic framework.
- Implemented a C-based architecture using Latin-square grid permutation, reversible arithmetic substitution and Logistic Map chaotic diffusion. The system achieved high security standards with an encrypted image entropy of 7.997 and an NPCR score of 99.61%, indicating strong resistance to statistical and differential attacks.
- Designed a computationally efficient encryption solution suitable for resource-constrained environments like IoT nodes (ESP32/Arduino) and mobile devices.

JaagrukVoter   github.com/DodmaneAnirudh

React.js, Node.js, Express.js, MongoDB   *[November 2025]*

- Developed "JaagrukVoter" a comprehensive web-based civic engagement platform designed to empower citizens by providing a searchable database of Indian politicians, their backgrounds, and electoral history.
- Architected a scalable full-stack application using the MERN stack (MongoDB, Express, React, Node.js). Implemented RESTful APIs to fetch and display dynamic candidate profiles and utilized MongoDB for efficient handling of unstructured demographic and political data.

Resume Portfolio Website   https://github.com/DodmaneAnirudh/Portfolio

React.js, HTML5, CSS3, JavaScript   *[November 2025]*

- Developed a responsive, multi-page personal portfolio website designed to serve as a centralized digital resume, showcasing academic projects, technical certifications, and professional skills.
- Designed a Single Page Application (SPA) using React.js component-based architecture to ensure fast rendering and seamless navigation. Implemented modern CSS3 and JavaScript for a fully responsive layout that adapts dynamically to mobile and desktop screens.

ACHIEVEMENTS & CERTIFICATIONS

Certifications: Computer Networks and Internet Protocol, Google Sheets, Introduction to Programming in C, Computer Architecture, Introduction to Internet of Things

Achievements: NPTEL Believer Award   *Jan – Apr 2024*
Recognized by NPTEL (IIT Madras) for consistent academic performance. Awarded the "NPTEL Believer" title for successfully appearing in and passing at least 4 distinct certification exams during a single semester (Jan-Apr 2024).

Leadership: Blue House Captain (School Team)
Led and managed the student team for inter-house sports and cultural competitions. Organized team strategies, coordinated practice sessions, and fostered team spirit, resulting in improved performance in school-level tournaments.