# Anirudh C

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## Education

**R V College of Engineering**                                           *Aug 2023 – 2027*
*BE in Information Science and Engineering*                  **Bengaluru, Karnataka**
CGPA: 9.46

## Certifications

- Data Science for Engineers by IIT Madras (online, NPTEL): Silver Medalist (Top 5%) See Credential
- Supervised Machine Learning (Coursera): 99.6% See Credential

## Projects

**Plant-Disease-Detection-ML**(website) | *Flask, TensorFlow,Keras, MongoDB, Neural Networks, Tailwind CSS, JavaScript*
                                                                          *2024 – ICAISC Research*

- Achieved **97.8%** classification accuracy by training a multi-layer neural network on **15,000+** plant images, using hyperparameter tuning to optimize performance.
- Enabled real-time disease detection and severity estimation by building a Flask-based web app that classified plant diseases and quantified infection percentage via channel-based image analysis.
- Improved diagnosis tracking and treatment comparison by integrating MongoDB to store historical predictions and user inputs, enhancing long-term decision-making for users.

**Disaster-News-Auth-Validate:** | *Python, Flask, JavaScript, Chart.js, REST APIs, Weather API, Graph Algorithms, Role-based Auth*
                                                                          *2025 – Sem End Project*

- Built disaster monitoring system integrating IoT feeds, weather APIs, and social media analysis.
- Designed multi-role dashboards with live alerts, map visualizations, and AI-based disaster verification.
- Implemented graph-based simulations for emergency routing and communication network efficiency.
- Enabled real-time analytics, PDF reports, and historical risk predictions using JSON/CSV datasets.

**Budget-Optimizer**(website) | *Python, Flask, JavaScript, HTML/CSS, Chart.js, REST APIs, Pandas, NumPy, Custom ML Models, Algorithmic Optimization (Greedy, DP, Backtracking, Decision Trees), PDF Processing, Role-Based Auth*
                                                                          *2025 – Project*

- Developed a Flask-based budget planner using ML and algorithmic optimization (greedy, DP, decision trees), delivering **95%+** accurate financial insights.
- Trained models on Kaggle data and automated bank statement analysis with pdfPlumber, reducing manual budgeting by **70%**.
- Built a responsive UI with Chart.js and role-based auth, enabling secure, multi-user financial planning with real-time recommendations.

## Skills

**Languages:** Python, TypeScript, JavaScript, C++/C, R, HTML, CSS
**Tech Stack:** Node.js, React.js, Web3 Framework, Tailwind, REST API, Vite
**Frameworks / Libraries / Tools:** TensorFlow, Keras, Scikit-learn, GenAI, LLMs, RAG Pipelines, Firebase, MongoDB, Figma, Git, JWT

## Societies

- **Coding Club – RVCE, Bengaluru, IN** (Member)                    *Oct 2024 – Present*
- **Google Developer Groups – RVCE, Bengaluru, IN** (Machine Learning Member)    *Aug 2024 – Present*

## Competitive Programming

- **LeetCode:** https://leetcode.com/u/i-want-a-job/
  Solved **250+** problems; Rating: **1533**; Highest: **1569** (Top 35% globally)

- **Codeforces:** https://codeforces.com/profile/Ani24