

PRATHAM NILANGE

Bengaluru, Karnataka, India

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Education

R.V College Of Engineering, Bengaluru
Bachelor of Engineering (B.E.) in Information Science

Oct 2023 – Sept 2027
CGPA: 8.93/10

Sri Chaitanya PU College, Bengaluru
Pre-University Course (PUC) – PCMC Stream

2021 – 2023
92.7%

Professional Summary

- Information Science undergraduate with strong DSA, ML, and IoT experience
- Quick learner and team player with hands-on project development and hackathon participation

Projects

ClubVerse - The College Club Management System *Flutter, Firebase, AI*

Streamlined event planning, membership tracking, and resource allocation. Enabled messaging, announcements, and real-time analytics for improved engagement. ([link](#))

DIASR – Intrusion Detection & Secure Routing *Python, ML, Flask, IoT*

Built a hybrid framework using Isolation Forest + DSR protocol. Raspberry Pi agents performed trust management and defended against blackhole/Sybil attacks. ([link](#))

FreshPredict – Fruit & Vegetable Freshness Classifier *Python, CNN, Deep Learning*

Achieved **92%** accuracy in classifying produce freshness. Used transfer learning and image augmentation for robust food quality monitoring. ([link](#))

Neural Network in C++ (From Scratch) *C++, Deep Learning*

Implemented memory-efficient feedforward neural net with backpropagation, showcasing understanding of deep learning pipelines. ([link](#))

Competitive Programming

- Consistently solve problems across LeetCode, Codeforces, CSES
- **LeetCode:** Rated 1500+ (Top 15% globally)
- Focus on DSA patterns, optimization, and time-bound logic building

Hackathons & Involvements

DSA Hackathon – PhaseShift, BMSCE (Dec 2024): **Top 10 among 100+ teams**, solved algorithmic challenges under time pressure.

Food Safety Hackathon – IIT Bhubaneswar (Sept 2024): Proposed AI-based food safety solutions.

Alaap (Music Club): Guitarist at college events.

NSS: Volunteer in social activities.

Skills

- **Languages:** Python, C++, C, JavaScript, HTML/CSS, C#
- **Core:** DSA, Neural Networks, ML, IoT, NLP, LLMs, Fine-Tuning
- **Tools:** Git, GitHub, VS Code, Firebase, Flutter, Colab, Azure (Beginner)

Languages & Interests

- **Languages:** English, Hindi, Kannada (Fluent)
- **Interests:** Badminton, Guitar, Music Production, Reading