

PRASANTH KUMAR BOLLINEDI

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Education

- **Velagapudi Ramakrishna Siddhartha Engineering College**
B.Tech in Information Technology
Sep 2023 – Present
CGPA: 8.93
- **Sri Chaitanya Junior Kalasala**
Board of Intermediate Education
July 2021 – May 2023
Percentage: 97.1%
- **Sree Vidya High School**
Secondary School Certificate
July 2020 – April 2021
Percentage: 99.3%

Skills

- **Programming Languages:** Java, Python, C
- **Frontend:** React.js, JavaScript, TypeScript, HTML5, CSS3
- **Backend:** Node.js, Express.js, Django, Flask
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, VS Code, Google Colab, Jupyter Notebook, Postman, Eclipse
- **Core Competencies:** Data Structures & Algorithms, Database Management, Problem Solving

Projects

Study Buddy (AI Tutor App)

- Developed an AI-powered personalized tutor providing an immersive learning experience with a real-time interactive 3D avatar, visual explanations, and adaptive learning paths.
 - Integrated virtual laboratories for practical and interactive learning, enabling students to explore experiments safely without physical equipment, thereby improving engagement and curiosity-driven education.
- Tech Stack:** React, Node.js, Express.js, MongoDB, Three.js, WebSocket, RESTful APIs

Proctor Book Digitalization (Digital Proctor Log)

- Built a secure, full-stack web platform to digitize proctor records, streamlining student data management, attendance tracking, and academic performance monitoring with role-based access control.
 - Enhanced data integrity and accessibility by implementing scalable features for attendance, performance analytics, and progress monitoring, reducing manual workload for faculty and improving efficiency.
- Tech Stack:** Django, PostgreSQL, JavaScript, HTML5, CSS3, RESTful APIs

Experience

Research Intern

May 2025 – June 2025

Indian Institute of Science (IISc), Bengaluru

- Applied algorithmic logic and formal proofs to address research problems, verifying correctness, analyzing complexity, and ensuring efficiency across computational scenarios.
- Collaborated with IISc researchers to refine and optimize algorithmic approaches, enhancing expertise in data structures, algorithms, and theoretical computer science.
- Designed and analyzed scalable algorithms for disk-based systems, employing techniques such as B-Trees, multi-level indexing, and external sorting to improve data management performance.

Achievements

- Achieved **Gold** in **The Joy of Computing using Python** from NPTEL (2024)
- Ranked **7th** in the **TechXcelerate National Level Hackathon** at BITS Pilani Goa [200+ teams]
- Secured **2nd place** in **Algo Arena**, National-Level Coding Competition at PVPSIT [500+ participants]
- Awarded Certificate of Achievement in **BUGHUNT** event by CSI Student Chapter, IT Department, VRSEC (2024)

Problem-Solving / Competitive Programming

- **LeetCode:** Profile (570+ Problems, max rating: 1826, Top 6% globally)
- **Codeforces:** Profile (230+ problems, Pupil, max rating: 1202)
- **CodeChef:** Profile (350+ Problems, 100+ days streak, max rating: 1446, 2 Star)
- **GeeksforGeeks:** Profile (330+ problems solved)
- **HackerRank:** Profile (5-star in Python, 4-star in Java and C, 3-star in Problem Solving)