

RACHIT KUMAR NAG

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EDUCATION

Rao Bahadur Y. Mahabaleshwarappa Engineering College

Ballari, Karnataka

Bachelors of Technology in Information Science and Engineering

Expected Graduation, June 2026

- **Concentration:** Software Development, Machine Learning, and Full-Stack Web Technologies
- **Related Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Full Stack Web Development, Machine Learning, DBMS, Computer Networks, Discrete Mathematics and Statistics for Computer Science.

EXPERIENCE

Data Structures & Algorithms Training – TUF (takeUforward)

Remote Learner - August 2025 – November 2025

- Completed a 4-month remote **DSA program by TUF**, focusing on writing efficient, interview-oriented code.
- Practiced implementing **arrays, linked lists, stacks, queues, trees, graphs, hash tables, sorting and searching algorithms** with attention to time and space complexity.
- Solved structured **problem sets and contests** to apply recursion, dynamic programming and greedy techniques, improving speed and accuracy for coding interviews.

Full-Stack Web Development Bootcamp – Udemy

Remote Learner - March 2025 – September 2025

- Trained under **Dr. Angela Yu** in modern full-stack development to build complete, data-driven web applications from the ground up.
- Created projects using **HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB**, focusing on responsive design and smooth user interactions.
- Designed and consumed **RESTful APIs**, connecting frontend interfaces with backend services to maintain reliable and efficient client-server communication.

PROJECTS

SocietyVoice – Community Issue Management System

Full-Stack Developer

- Built complaint registration, community voting, and waste reporting features using HTML, CSS, JavaScript, and PHP.
- Designed and managed a MySQL database to efficiently store resident details, complaints, and votes with optimized queries.
- Implemented secure authentication, session handling, and role-based dashboards for residents and administrators.

ACTIVITIES AND LEADERSHIP

- **Event Coordinator, Department Tech & Sports Fests** – Managed event logistics, registrations, and on-day execution with a cross-functional student team.
- **Design Lead, College Events** – Created promotional posters and digital content for technical, cultural, and sports events to boost participation.
- **Senior NCC Cadet** – Led drills and parades, coordinated team practice sessions, and supported discipline and teamwork among cadets.
- **College Football Team Member** – Represented the college in intercollege tournaments, finishing as runners-up in both 2023 and 2024.

SKILLS

- **Programming & Web Technologies** - C++, C, Java, JavaScript, HTML, CSS, React.js, Node.js, Express.js, MongoDB, MySQL, NumPy, Pandas, Matplotlib, Python
- **Technical Skills** - Data Structures & Algorithms, Version Control, Debugging, Code Reviews, Data Analysis, Data Visualization, Machine Learning models, Predictive Modeling,
- **Languages** - Hindi, English, Kannada; currently learning Japanese (Beginner)
- **Interests** - Football, anime and Japanese culture, tech blogging, mathematics, and reading non-fiction books focused on productivity, personal development, and improving quality of life and work.