Ujjwal Bajpai

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Education

RV College of Engineering, Bengaluru — **2023 − 2027**
Bachelor of Engineering in Electronics & Communication Engineering — *CGPA: 8.52/10.0*

DAV Public School, Paradip
Higher Secondary (12th): 91.8% — Secondary (10th): 97.4%

Technical Skills

Programming Languages: C++, C, Python, JavaScript, SQL, HTML5, CSS3
Web Development: React.js, Node.js, Express.js, MongoDB, RESTful APIs, Tailwind CSS, Responsive Design
Developer Tools: Git, GitHub, Postman, VS Code, Chrome DevTools, MongoDB Compass
Technical Knowledge: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems (DBMS), Operating Systems, System Design, Machine Learning, API Integration

Professional Experience

IT Intern — Indian Farmers Fertiliser Cooperative (IFFCO) — **Jul 2025 − Sep 2025**
Information Technology Department — *Paradip, India*

− Developed and deployed a secure HRMS portal using HTML5, CSS3, and JavaScript, improving employee data accessibility by 40% and enhancing user authentication systems for 500+ employees.
− Collaborated with cross-functional teams including instrumentation engineers to analyze and document industrial automation systems, improving IT-OT integration workflows.
− Created interactive data visualization modules with responsive design ensuring 100% cross-device compatibility across desktop, tablet, and mobile platforms.

Technical Member — RVCE ACM Student Chapter — **Jan 2025 − Present**
Association for Computing Machinery — *Bengaluru, India*

− Organized and led technical workshops on full-stack web development, data structures, and competitive programming for 200+ students, increasing chapter engagement by 35%.
− Facilitated peer learning sessions and coding bootcamps, mentoring students in JavaScript frameworks, algorithms, and software development best practices.

Technical Projects

CodRev - AI-Powered Code Review Platform — GitHub — *React.js, Node.js, Gemini API*

− Built full-stack application using React.js and Node.js integrating Google Gemini API for automated code analysis, providing real-time quality ratings, bug detection, and code optimization suggestions.
− Implemented Monaco Editor with dual-panel responsive UI architecture, delivering markdown-formatted feedback and improving developer workflow efficiency by 60%.

FlowGuard AI - Smart Traffic Management System — GitHub — *React.js, Python, ML, Leaflet.js*

− Developed machine learning-based traffic prediction system trained on Bangalore traffic datasets using Python, achieving 85% accuracy in route optimization and congestion prediction.
− Engineered interactive dashboard with React.js and Leaflet Maps API featuring real-time vehicle tracking, automated fine generation using EmailJS, and dynamic route recommendations.

DocuMind — GitHub — *HTML5, CSS3, JavaScript, JSON*

− Designed and developed DocuMind, a document-centric web application enabling efficient document organization, retrieval, and structured data handling using JSON-based workflows.
− Built a fully responsive and performant frontend using HTML5, CSS3, and vanilla JavaScript, achieving optimized cross-device compatibility and high Lighthouse performance scores.

Achievements & Certifications

Hackathon Achievement: 2nd Runner-Up at BITS Pilani API Hackathon 2025, competing against 50+ teams nationwide.

Academic Scholarship: Awarded 1.7 Lakhs merit-based scholarship from IFFCO for exceptional performance in Class 10th & 12th board examinations.

Competitive Programming: Solved 425+ algorithmic problems on LeetCode (Top 10% globally); Secured All India Rank 913 (98.9 percentile) in COMEDK UGET 2023.

Professional Certifications: Database Management Systems (NPTEL - Elite Grade), Introduction to Data Science (NPTEL), Advanced C++ Programming (Udemy).