

YASHVANTH M U

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PROFESSIONAL SUMMARY

Aspiring Software Engineer and Information Science & Engineering undergraduate at RVCE. Proficient in full-stack web development, Cloud Computing (GCP), and AI/ML integration. Passionate about engineering scalable, intelligent systems that solve real-world problems end-to-end.

EDUCATION

B.E. in Information Science & Engineering RV College of Engineering, Bengaluru <i>Relevant Coursework:</i> Data Structures & Algorithms, DBMS, Operating Systems, OOP, Cloud Computing.	2023 – Present CGPA: 8.51
Class 12 (PCMB) Vidyanidhi PU College	2021 – 2023 93%
Class 10 (Secondary School) Ravindra Bharathi Vidya Mandira	2021 94.56%

PROJECTS

Network Navigator — IoT Pathfinding Visualizer



- Engineered a network topology editor using ReactFlow, capable of simulating complex routing for **50+ nodes**.
- Implemented Dijkstra's and adaptive routing algorithms to visualize pathfinding, reducing analysis time by **40%**.
- Developed a real-time metrics dashboard to monitor latency, hop counts, and node-failure impact.

Predictive Maintenance System (ESP32 + ML)



- Developed an IoT sensing module using ESP32 to transmit vibration/thermal data to Firebase with **sub-second latency**.
- Trained a Random Forest classifier (scikit-learn) achieving **92% accuracy** in detecting early-stage machinery faults.
- Deployed a Streamlit dashboard providing live health status and anomaly trend analysis for industrial equipment.

NutriTrack AI — Food Safety & Ingredient Analysis



- Architected a Next.js application integrating **Google Gemini API** to analyze ingredient lists for health risks.
- Automated FSSAI compliance checks, providing instant food safety verification for users.
- Optimized UI performance using ShadCN/UI and serverless actions, resulting in a **30% faster** load time.

Alzheimer's Memory Assistance Platform



- Built a secure Node.js/Express backend handling media uploads to **Google Cloud Storage**.
- Integrated Google Vision API to identify faces with **95% precision** and retrieve associated memories.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, C++, HTML/CSS, SQL
Web Tech	Next.js, React.js, Node.js, Express, Tailwind CSS, RESTful APIs
AI & Cloud	Google Gemini, Genkit, Vision API, Google Cloud Platform (GCP), Firebase
Tools	Git/GitHub, Postman, VS Code, Agile, Data Structures & Algorithms

ACHIEVEMENTS & CERTIFICATIONS

- Top 5 Finalist, Hackfest (National Level):** Selected among **1600+ students** in a 36-hour hackathon at NMAMIT, Nitte.
- Top 5 Finalist, Tech Tank (RVCE):** Secured top rank among **200+ teams** in a competitive college-level hackathon.
- Data Science for Engineers:** NPTEL Certification.
- Big Data Computing:** NPTEL Certification.