

# ARYAN BOKOLIA

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[LinkedIn](#) | Location: Mangaluru, India

## EDUCATION

### National Institute of Technology Karnataka (NITK), Surathkal

Aug 2024 – Present

*B.Tech in Computer Science and Engineering*

*Mangaluru, India*

- Focusing on foundational excellence in Data Structures & Algorithms, Digital Logic, and Linear Algebra.

### Vanasthali Public School

Jun 2015 – Jun 2024

*High School - 12th Standard: 95.4%, 10th Standard: 98.6%*

*India*

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Python, JavaScript, HTML5, CSS3, SQL (MySQL)

**Web Development & Frameworks:** React.js, Next.js, Node.js, Express.js, Vite, Tailwind CSS, Full Stack Development

**AI & Machine Learning:** Generative AI, Large Language Models (LLM), Retrieval-Augmented Generation (RAG), Agentic AI

**Database & Backend:** Firebase, MySQL, RESTful APIs, Backend Development

**Tools & Technologies:** Git, GitHub, VS Code, Kali Linux, Version Control, Logisim, Verilog

**Core Competencies:** Data Structures, Algorithms, Problem Solving, Digital Logic Design, Finite State Machines, Team Leadership

## PROJECTS

### Finsight - Personal Finance Analyzer | *React.js, Vite, Express.js, Firebase, Google Auth, OCR*

[GitHub](#)

- Architected a secure full-stack application leveraging Optical Character Recognition (OCR) and Google Authentication to protect sensitive financial data.
- Automated expense tracking by developing an AI-driven scanning module, effectively converting raw receipts into structured visual insights and analytics dashboards.
- Spearheaded technical decision-making for backend security protocols using Express.js and Firebase integration for real-time data synchronization.
- Implemented responsive front-end design with React.js and Vite for optimal user experience across devices.

### AeroNITK Club Website | *React.js, Vite, Tailwind CSS*

[GitHub](#)

- Led the design and end-to-end development of the official website, establishing the club's first digital identity and online presence.
- Collaborated with cross-functional club leads to centralize activity tracking, event management, and project showcases, resulting in enhanced member outreach and recruitment efficiency.
- Developed responsive and mobile-friendly interface using Tailwind CSS for seamless user experience.

### Traffic Light Controller | *Verilog, Logisim, Finite State Machine (FSM)*

[GitHub](#)

- Engineered a Finite State Machine (FSM) based traffic light controller, solving complex logic requirements for synchronized vehicular and pedestrian safety systems.
- Optimized intersection efficiency by implementing dual-mode sensor logic, significantly reducing idle wait times through prioritized pedestrian override mechanisms.
- Designed and simulated digital circuits using Verilog HDL and validated functionality through Logisim testing environment.

## EXPERIENCE & LEADERSHIP

### Indian Society for Technical Education (ISTE) NITK

Aug 2024 – Present

*Executive Member - Technical Team*

*Mangaluru, India*

- Coordinated technical initiatives and workshops for 200+ student members, fostering skill development in emerging technologies.
- Collaborated with cross-functional teams to organize technical events and coding competitions.

### Team AeroNITK & TEDxNITK Surathkal

Aug 2024 – Present

*Web Developer*

*Mangaluru, India*

- Served as primary Web Developer, designing and maintaining official websites for both organizations.
- Mentored junior members in web development best practices, React.js, and modern frontend technologies.

## ACHIEVEMENTS & CERTIFICATIONS

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**Academic Excellence:** Achieved 95.4% in 12th Standard and 98.6% in 10th Standard

**Professional Certifications:** Earned 5 professional certificates in Artificial Intelligence and Web Development, demonstrating commitment to continuous learning and skill enhancement

**Technical Leadership:** Successfully led multiple web development projects for campus organizations, delivering production-ready applications

**Collaborated** with cross-functional teams to organize technical events and coding competitions