

# Rajiv Indoliya

Portfolio

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## EDUCATION

**Visvesvaraya National Institute of Technology**  
B. Tech., Electrical and Electronics Engineering

Nagpur, India  
Expected May 2026

## EXPERIENCE

**Backend Development Intern** | Ripening Pvt Ltd (May – Jul 2025)  

- Built and deployed a scalable Bookstore API with CRUD operations using Node.js, Express, and MongoDB.
- Improved backend performance by optimizing SQL queries and middleware logic
- Implemented JWT authentication and role-based access to enhance API security.

## PROJECTS

### VNIT Pathfinder | GitHub Link

Skills: Node.js, Express, MongoDB, Redis, Socket.IO, JWT, Leaflet.js, A\* Algorithm, JavaScript  

- Developed a real-time location sharing system with live GPS tracking and movement trails for VNIT students.
- Implemented A\* pathfinding on a custom campus graph to provide shortest routes and navigation.
- Built a secure, scalable backend using Node.js, Redis, and Socket.IO for continuous real-time updates.

### Tourism Recommendation System | GitHub Link

Tech Stacks: Python, scikit-learn, pandas, numpy  

- Constructed a Python-based recommendation engine using scikit-learn for personalized travel plans.
- Applied collaborative filtering techniques to enhance recommendation accuracy.
- Crafted a user-friendly HTML/CSS interface for seamless interaction.

### Real-Time Chat Application | GitHub Link

Tech Stack: Node.js, Express.js, Socket.IO, JavaScript, HTML/CSS, Render (Deployment)  

- Built a real-time chat platform using Socket.IO for instant communication between multiple users.
- Developed an Express.js backend to handle connections, message broadcasting, and error management.
- Designed a responsive front end with HTML, CSS, and JavaScript to dynamically render incoming messages and ensure smooth interaction.

### Customer Analytics & Reporting | GitHub Link

- Analyzed 10,000+ sales records with SQL to generate KPIs for customer behavior insights.
- Segmented customers by purchase behavior and age to improve marketing targeting accuracy.
- Accelerated report generation for stakeholders by optimizing queries with indexing and joins.

## SKILLS

**Languages:** C++, TypeScript, SQL, Python

**Frameworks/Libraries:** Node.js, Express.js, RESTful APIs, Socket.io, NumPy, Pandas

**Technical skills:** Data Analysis, Data Structures & Algorithm, Object Oriented Programming, Database Management System, Backend Development.

**Developers Tools:** SQL server Management, Git/GitHub (version control), VS Code, Postman, Google Colab

## ACHIEVEMENTS

- Placed in the top 1% worldwide in Amazon's ML Hackathon by developing a multimodal regression model with textual and visual feature engineering.
- Solved 400+ DSA problems across **LeetCode**, **GFG**, **Code forces** with focusing on optimal time-space complexity.

## Leadership & Extracurricular

- Event Manager, Aqua Skylark, Axis Tech Fest, VNIT 2024 Oct - 2025 April  
Led a team of 10+ to plan and execute a water-based robotics event.
- Street & Mime Plays Performer, Hallabol, drama club of VNIT 2023-2024  
Performed on social issues such as child labor and gender equality.