

RISHABH RAJ

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EDUCATION

National Institute of Technology, Delhi

B.Tech in Electrical & Electronics Engineering

May 2025

CGPA-7.43 SGPA-9.05

EXPERIENCE

RapidBox

Jun 2024-Jul 2024

Associate Software Engineer Intern

Remote

- Developed a **Java 17, Spring Boot 3** back-end for a vehicle rental platform with **branch** and **booking management**.
- Implemented a **fixed pricing model** and **booking constraints**; achieved **95%** endpoint success in Postman testing, lowering post-deployment bugs.

Engineers' Cradle

Jun 2023-Jul 2023

Data and Market Research Intern

Remote

- Formed partnerships with **200+** technology institutions and engineering firms; identified **80+** unique opportunities.
- Analyzed **50+** prospective clients, compiled contact databases, created **30+** detailed organizational profiles, identified **key decision-makers**, and devised strategic engagement plans.

180 Degrees Consulting

Jan 2022 - Jan 2023

Consultant

- Project Lead for a team of **10** consultants to deliver an **SEO report** analyzing more than **7 performance indices** for **Leading Learners**, a Canada-based Ed-tech startup.
- Conducted a comprehensive **SWOT analysis** for **Get-a-Whey**, providing strategic insights to improve revenue by **30%**.

PROJECTS

Medikart - Comprehensive MERN Stack HealthCare Delivery Website

[Live GitHub](#)

- Architected a full stack website with **ReactJS** and dedicated **MongoDB** collections achieving a perfect score of **100** for Accessibility and Best Practices from PageSpeed Insights.
- Engineered robust 5+ back-end APIs using **Node.js**, **Express** and utilized **MongoDB Atlas** to manage user data, ensuring secure authentication, product categories, order and payment handling.
- Enhanced security with **JWT** authentication, salted/hashed passwords using **BcryptJS** reducing unauthorized access with stringent validation checks; integrated **Google reCAPTCHA v2** to protect against bots.
- Implemented key features such as cart functionality using **Context Reducer API** and real-time notifications using **react-hot-toast**; incorporated real-time online payments using **Stripe API** for secure and efficient transactions.

AgriProPlus - An Extensive Agriculture Assistance Tool

[Live GitHub](#)

- Built the frontend using **React** and **Chakra UI**, integrating news and YouTube APIs to deliver farming content.
- Executed user authentication with **Firebase**, customised Python scraper for extracting agricultural schemes data, stored in **MongoDB**, and served via **Node.js/Express** backend.
- Created a predictive ANN model for crop recommendations with 98.48% accuracy to cut agricultural losses by upto 20%.

Integrated AI-driven Condition Monitoring and Fault Diagnosis for Induction Motors

[\[Report\] GitHub](#)

- Engineered hardware and software model for fault diagnosis of single-phase induction motors using ANN and DWT.
- Deployed deep learning based **Motion Amplification Video (MAV)** techniques to visualize and detect incipient mechanical and vibrational faults.
- Formulated a **DWT-based ANN** model utilizing a tanh activation function, achieving 98.70% accuracy in fault detection.

TECHNICAL SKILLS

Languages & Tools: Python, Java, C++, JavaScript, Excel, SQL, Matlab

Frontend: React, Next, TailwindCSS, HTML, CSS, Bootstrap, ChakraUI

Backend & Databases: Node.js, Express.js, PostgreSQL, MongoDB

Developer Tools: Postman, VS Code, GitHub, Eclipse, ThunderClient

POSITIONS OF RESPONSIBILITY

Placement Cell Sector Head-Led a team of 25+ junior coordinators for outreach and a POC for 30+ companies.

NITD Alumni Cell- General Secretary-Organized impactful alumni sessions and facilitated connections with 1500+ alumni

Technical Club Upvision -Management Head-Conducted 10+ technical events with peak of 500+ attendees and 10k in prizes.

ACHIEVEMENTS AND RECOGNITION

- Global Rank **38** in START115C and Rank **145** in START114C on Codechef out of more than **5000** participants globally.
- Secured a global rank of **1352** in LeetCode Contest 329, among **25,000+** participants, in top **9.36%** coders site-wide.
- Flipkart Grid Semi-Finalist** ending up in top **800** qualifiers out of **4,00,000+** participant teams across the entire nation.
- Top **5** percentile in Adobe X GeeksForGeeks Generative AI Hackathon out of **50000+** participants across the entire nation.
- Stood **2nd** in UPitch a start up ideation competition organised by Startup Cell and Incubation Centre out of **500+** teams.

Coding Profiles - [\[Leetcode \(1750+\)\]](#) [\[GFG\]](#) [\[Codeforces \(Specialist -1400+\)\]](#) [\[Codechef-3 stars \(max 1700+\)\]](#)