RISHABH RAJ

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EDUCATION

National Institute of Technology, Delhi	2021 - 2025
B.Tech in Electrical & Electronics Engineering	*CGPA-7.43 SGPA-9.05*

EXPERIENCE

RapidBox   **Jun 2024-July 2024**
ASE Intern   *Remote*
- Collaborated to develop a city-wide vehicle rental system with branch and booking management.
- Implemented fixed pricing model and booking constraints using Java 17 and Spring Boot 3.

Engineers' Cradle   **Jun 2023-July 2023**
Data and Market Research Intern   *Remote*
- Targeted partnerships with technology institutions and engineering firms; identified 50+ unique opportunities.
- Analyzed prospective clients, compiled contact databases, detailed organizational profiles, identified key decision-makers, and devised strategic engagement plans.

180 Degrees Consulting   **Dec 2022 - Jan 2023**
Consultant
- Project Lead for a team of 10 consultants to deliver a SEO report analysing more than 7 KPIs for Leading Learners.
- Conducted SWOT Analysis for Get-a-Whey, assessed company performance, and provided critical insights for strategic improvement.

PROJECTS

Medikart - Comprehensive MERN Stack HealthCare Delivery Website   **Live GitHub**
- Developed a MERN stack website with frontend built using ReactJs and dedicated MongoDB collections for items, users, and orders.
- Engineered robust back-end APIs using **Node.js** , **Express** and utilized MongoDB Atlas to manage user data, ensuring secure authentication, product, and order handling.
- Enhanced security with **JWT** authentication, salted/hashed passwords using **BcryptJS** reducing unauthorized access with stringent validation checks.
- Implemented key features such as cart functionality using Context Reducer API and real-time notifications using **react-hot-toast**, ensuring a seamless user experience.

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.
- Implemented user authentication with **Firebase**, developed 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 20%.

Integrated AI-driven Condition Monitoring and Fault Diagnosis for Induction Motors   **[Report] GitHub**
- Developed hardware and software model for fault diagnosis of single-phase induction motors using ANN and DWT.
- Implemented **Motion Amplification Video (MAV)** to visualize and detect incipient mechanical faults.
- Formulated a **DWT-based ANN** model utilizing the tanh activation function, achieving 98.70% accuracy.

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 alumni
Technical Club Upvision -Management Head-Conducted 10+ technical events with a peak of 200+ attendees

ACHIEVEMENTS AND RECOGNITION

- 2nd position in UPitch in start up ideation competition organised by Startup Cell and Incubation Centre out of 35+ teams.
- Global Rank 38 in START115C and Rank 145 in START114C on Codechef out of more than 4k participants.
- Secured a global rank of 1352 in LeetCode Weekly Contest 329, among 24,000+ participants.
- Flipkart Grid Semi Finalist ending up in top 10k out of 4 lakh+ participant teams across the nation.
- Runner-Up in Techgeek quiz organized by IEEE Delhi Section on Industry Academia Partnership out of 200+ participants.

Coding Profiles - [Leetcode (1750+)] [GeeksForGeeks] [Codeforces (Specialist-1400+)][Codechef (3 star-1650+)]