

RAJSHEKHAR BAL (Portfolio- <https://rajportfolio21.netlify.app/>)

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EDUCATION

- **RCC Institute of Information Technology (RCCIIT)** **Kolkata, WB, India**
- Bachelor in Technology (Computer Science and Engineering); CGPA:7.26* *October 2022-June 2026*

SKILLS SUMMARY

- **PROGRAMMING LANGUAGE:** Java, C, C++, Python, SQL, Java Script, React
- **FRAMEWORKS LIBRARIES:** HTML5, CSS3, Node.js, Next.js, Django
- **TOOLS PLATFORMS:** Visual Studio Code, GitHub, Oracle Live SQL, LucidChart, Android Studio, G-Colab, PyTorch
- **DATABASES:** MongoDB
- **CLOUD DEPLOYMENT:** Netlify, Vercel, Render, Railway

EXPERIENCE

- Completed internship programs with **Code Alpha** and **Codec**, recognized under **AICTE**, where I worked on practical projects to enhance technical and problem-solving skills.
- Designed and developed dynamic, responsive websites for multiple clients as a **freelance developer**, handling the full web development lifecycle—including requirement analysis, **UI/UX design**, **front-end and back-end development**, integration of databases, and deployment—using modern web technologies such as **HTML5**, **CSS3**, **JavaScript**, and relevant frameworks to deliver efficient and user-friendly web solutions. (**24 months of experiences**)

EXPERTICE IN LANGUAGES

Hindi (Fluent), **English** (Fluent), **Bengali** (Native)

PROJECTS

- **Dynamic Webpage (Charu-Chitran Drawing School): Roles: Full-Stack Development. Built with- JavaScript, HTML, TAILWIND-CSS, HANDLES-** Student Management, Admin Management, Builds a sufficient Fees Management. Link-<https://charu-chitran-art-school.onrender.com/>
- **VISION-SUPERVISED RADIOLOGY REPORT GENERATION:** It is used to automatically generate radiology reports from various medical images, leveraging both visual and textual data to improve the accuracy and efficiency. **Roles – Research and AI Developer, Database Gathering & Testing.** Developed an AI-based system to generate radiology reports from **supervised learning**. Integrated image analysis with **NLP pipelines** to produce structured and human-readable diagnostic reports. **Technologies used- Python, TensorFlow, NLP libraries.**
- **RadAssist – AI-Powered Radiology Assistant**
Developed a **full-stack** web application providing **AI-assisted** analysis of medical images, purpose-built for **radiology workflows**. The platform features robust **support for multiple image formats (JPEG, PNG, DICOM)** and delivers real-time diagnostic suggestions, detailed clinical findings, and probability distributions across various conditions. The frontend is designed with **React.js** and **Vite**, offering a modern, responsive user interface with seamless **API communication via Axios**. On the backend, **FastAPI (Python)** orchestrates secure and rapid interactions, integrating a mock AI model and real-time image processing capabilities using **OpenCV** and **Pillow**. The project pipeline enables clinicians to upload images and receive actionable insights instantly, enhancing diagnostic accuracy and efficiency. The application is fully containerized and deployed using **Netlify** and **Railway** for scalable, **cloud-based access**.
GitHub: <https://github.com/rj21959/RadAssist> | **Live Demo:** <https://radassistai.netlify.app/>

HONOURS / ACHIEVEMENTS

- **Participated:** EY Techathon 5.0 by Unstop Igniters, **Smart Bengal Hackathon**-Government of West Bengal Initiative, **All India Hackathon Competition**.
- **Member and Mentored, Unstop Igniters Club RCCIIT:** Unstop Igniters Club RCCIIT, 1100+members, mentored 50+ students in person, organizing coding competitions and tech sessions (Total 15+ Events).
- **PLAYED-** 2ND Division Cricket for Titagarh Cricket Club, U-13, U-16 CAB Cricket Tournament for BHARATI SANGHA CLUB.(For More Check My Portfolio Link Upwards).