

# B. Srinivasa Ranganath

Full Stack Developer

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## Profile Summary

**MERN Stack Developer** specializing in building **scalable, high-performance web applications** using **MongoDB, Express.js, React.js, and Node.js**. Experienced in both **frontend and backend development**, creating **responsive, user-friendly interfaces** and designing **efficient RESTful APIs**. Strong problem-solving skills with a focus on **modern web standards**, ensuring applications are **optimized, maintainable, and intuitive**.

## Projects

- Online Bookstore E-Commerce** | [GitHub](#) | [Live](#) | *Node.js, Express.js, EJS, Bootstrap, MongoDB* **2025**
- Built a full-stack **Online Bookstore** with real-time features using the **MVC architecture**.
  - Deployed on **Render**, includes live order tracking, delivery info, and GST calculation.
  - Secure session-based **user authentication system** with email alerts using **Nodemailer**.
  - Responsive frontend built with **EJS templating** and **Bootstrap** for clean UI/UX.
  - Search, sort (price, title, author), and manage books seamlessly via **RESTful APIs**.
- Reinforcement Learning-Based Hyperspectral Image Classification** | [GitHub](#) | [Research Paper](#) | *Data Science* **2024**
- Developed a **binary entropy method** for hyperspectral image classification to analyze spectral data efficiently.
  - Leveraged **reinforcement learning** to enhance classification accuracy in remote sensing applications.
  - Applied the technique to real-world domains like **agriculture, mineral exploration, and environmental monitoring**.
- Discord Music Bot for Medical Therapy** | [GitHub](#) | *React.js, Node.js, Discord API, YouTube API* **2023**
- Developed a **music therapy bot** to assist patients by fetching and playing user-requested music.
  - Integrated **Discord API** and **YouTube API** for seamless music streaming within Discord servers.
  - Designed an intuitive, **React.js-powered UI** to enhance user experience and accessibility.

## Technical Skills

- **Languages:** HTML, CSS, JavaScript, Python
- **Databases:** MongoDB, MySQL
- **Frameworks Libraries:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Express.js
- **Development Tools:** VS Code, Git, GitHub
- **Deployment Tools:** Render, Vercel
- **Soft Skills:** Communication, Teamwork, Time Management

## Education

**Institute of Aeronautical Engineering, Hyderabad** **2020 – 2024**  
*B.Tech in Computer Science and Engineering*

## Trainings

**Coding Ninjas** **Oct 2024 – Present**  
*Full Stack Web Development*

- **Generative AI Certification**
- **Frontend Development Certification**

**GeeksforGeeks** **March 2025 – Present**  
*Machine Learning & Data Science*

## Achievements

- Recognized at **METE Project Expo** by Dr. L. V. Narasimha Prasad for a therapeutic project designed to enhance patient well-being through music, fostering a positive environment in medical settings (March 10th, 2023).