

# Baibhav Kumar Singh

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## Education

**Vellore Institute of Technology, Bhopal**

**CGPA: 8.1**

*B.Tech - Computer Science and Engineering*

*Sep. 2022 - Jun. 2026*

**Guru Nanak Higher Secondary School**

**XII: 72.8%**

*ranchi, Jharkhand*

*Apr. 2021 - Apr. 2022*

**Guru Nanak Higher Secondary School**

**X: 92.8%**

*ranchi, Jharkhand*

*Apr. 2019 - Apr. 2020*

## Technical Skills

**Languages:** C++, Python, SQL, HTML/CSS, JavaScript

**Frameworks:** React.js

**Tools:** Git, Windows

**Familiar Skills:** AWS, Database, Networking, Operating System, Object-Oriented Programming, Problem-Solving and Analytical, Communication

## Projects

### Early-Stage of Polyp Detection

*Python, OpenCV, TensorFlow*

**Aug. 2023 - Oct. 2024**

- Designed and implemented an AI-powered system to detect early-stage colorectal polyps from endoscopic images, improving diagnostic accuracy and aiding early intervention.
- Developed and trained deep learning models using TensorFlow and CNN architectures, achieving a detection accuracy of 92% on a curated medical image dataset.
- Engineered custom data pipelines with Pandas and NumPy to efficiently process and label over 10,000 annotated images.
- Optimized model deployment workflows for scalable inference, minimizing latency by 20% and ensuring robust performance in real-time clinical environments.

### Book Store

*MongoDB, Express.js, React, Node.js, Stripe API, Tailwind CSS*

**Jan. 2025 - Mar. 2025**

- Developed a full-stack web application for an online bookstore offering both eBooks and physical books across diverse genres, providing a seamless shopping experience for users.
- Implemented secure user authentication and role-based access control, enabling administrators to manage inventory and users to browse, purchase, and track orders efficiently.
- Engineered a dynamic admin dashboard allowing administrators to add, update, and remove books.
- Integrated Stripe-based payment gateway, ensuring secure and real-time transaction processing for both digital and physical book purchases.

### Share-Bite

*HTML, CSS, JavaScript, React, Node.js*

**Oct. 2024 - Mar. 2025**

- Developed a web-based platform to connect restaurants and food donors with individuals and organizations in need of meals, ensuring seamless real-time interactions.
- Designed and optimized scalable SQL databases, reducing query latency by 30% and improving data flow efficiency for large distributed systems.
- Implemented automation scripts and secure access controls, aligning with ISO 27001 standards, enhancing security compliance by 40%.
- Integrated blockchain-based immutable storage solutions, improving data integrity by 50% and enabling transparent auditability.
- Engineered and tested advanced storage solutions, increasing deployment reliability by 30% and minimizing downtime for seamless system scalability.

## CERTIFICATIONS

- |                                                        |           |
|--------------------------------------------------------|-----------|
| ● Full Stack Developer MERN  SMARTBRIDGE               | Mar. 2025 |
| ● MongoDB                                              | Mar. 2025 |
| ● Problem Solver DSA FACE Prep                         | Mar.2025  |
| ● MATLAB Onramp and Simulink Onramp  MathWorks         | Dec. 2022 |
| ● The Bits and Bytes of Computer Networking   Coursera | Jan. 2024 |
| ● Cloud Computing   NPTEL                              | Apr.2024  |

## Leadership / Extracurricular

- **Content Team Member**, actively contributed to the club's activities by creating engaging and informative content for various technical and non-technical activities.
- **Mentoring and Teaching Share Market Fundamentals**, helped many individuals learn and invest in share market and managing the group to ensure a smooth and successful experience for participants to learn and make profits.

## Languages and Interests

**Languages:** English, Hindi

**Interests:** Reading, Singing, Sketching, Share Market, Chess