

Tushar Mohanpuria

Roll No. 21010146

B.Tech. in Computer Science Engineering

Indian Institute of Information Technology, Manipur

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GitHub Profile

LinkedIn Profile

EDUCATION

Indian Institute of Information Technology, Manipur

(06/2025)

B.Tech in Computer Science Engineering

CGPA: 9.21

Nalanda Academy Anantpura Kota (RAJ)

(06/2021)

Central Board of Secondary Education (C.B.S.E.), Class XII

Percentage: 86.8%

Atomic Energy Central School No 4, Rawatbhata (RAJ)

(06/2019)

Central Board of Secondary Education (C.B.S.E.), Class X

Percentage: 92.2%

EXPERIENCE

Centre for Development of Advanced Computing (C-DAC)

(05/2024 - 06/2024)

Virtual Intern - Ethical Hacking and Penetration Testing

Noida, India

– Completed C-DAC Training program. Proficient in Metasploit, Wireshark, and Burp Suite. Conducted vulnerability assessments and penetration tests. Authored a research report on "Unsealing the Backdoor: File Upload Vulnerabilities."

PERSONAL PROJECTS

Library Management System (Project Link):

A library management system (a full-stack project using MERN) accomplished a 50% increase in efficiency.

- Streamlined book transactions, automated library tasks, and introduced self-checkout, achieving a 40% time reduction.
- Introduced automatic QR code generation for book copies, reducing the process time by 50%.
- Added automatic fine collection through UPI deep link QR codes and a notification system for due dates under 5 days.
- Developed a system for the automatic generation of E-IDs & enabled book data extraction using ISBN with 80% accuracy.

Audio Equalizer Application (Project Link):

An audio equalizer with full-length file support and reduces time by 30% based on audio for increased user efficiency.

- Implemented controls for fine-tuning gains across 5 to 6 frequency bands, improving audio equalization precision.
- Established audio playback and visualization features, resulting in a 25% increase in user comprehension.
- Achieved an 80% accuracy in manipulating audio frequencies, showcasing proficiency in frequency modulation.

Multilingual Dictionary (Project Link):

A web application offering users word translations and definitions in 3-4 languages, enhancing multilingual accessibility.

- Enhanced user experience with a responsive interface, cutting word search time by 25% and enhancing navigation.
- Offered diverse interpretations in 3-4 languages, including synonyms, antonyms, and examples for a rich user experience.
- Gained 95% accuracy in displaying relevant images for user queries, highlighting strong search capabilities.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, HTML+CSS, JavaScript, Python

Libraries: React.js, Python (matplotlib, pydub, numpy, etc.)

Technologies: MERN Stack, Web, AI & ML

Developer Tools: Node.js, VS Code, Git, GitHub

Frameworks: Bootstrap, Express.js, Next.js, and Tkinter

Cloud/ Databases: document-oriented database (MongoDB), relational database (MySQL)

ACHIEVEMENTS

E-yantra (Semi Finals): Participation in the semi-finals of the E-yantra robotics competition.

(10/2022 - 07/2023)

NTSE (Stage-1 Qualified): Conducted by NCERT (Only 4000 Students Qualified)

(11/2020)

STSE (Top 90): Secured a position in the top 90 in the State Talent Search Examination.

(12/2020)