

# Eshaan Pandey

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[LeetCode](#) | [Codeforces](#) | [GitHub](#)

## PROJECTS

[CodesVerse](#) | *Node.js, Express.js, MongoDB, React.js, TailwindCSS, Docker*

[Link](#)

- Developed a secure platform to **write, compile, and execute C++ code**, processing **200+ submissions/minute**.
- Built a **MERN stack** application with a responsive **React.js** frontend and scalable **Node.js/Express.js** backend.
- Implemented **JWT and Passport** based authentication, used **bcrypt.js** for password hashing.
- Containerized code execution using **Docker**, ensuring enhanced security, isolation, and scalability.
- Planned deployment with **Nginx** to support **500+ concurrent users**.

[Federated Image Classifier](#) | *Flur, TensorFlow, Keras, Python*

- Implemented a federated learning system using **FLWR** to train a machine learning model across **3-5 distributed nodes**, ensuring efficient model training and data privacy.
- Formed an **image classification model** using TensorFlow's **Keras API**, achieving **97% accuracy** on a dataset of **75,000 images**, classifying into **46 categories**.
- Enhanced L2 regularization and dropout to reduce overfitting, improving generalization and model robustness.
- Engineered scalable multi-node training to reduce communication overhead by **15%**, maintaining privacy with local updates and minimal data sharing.

[LetsChat](#) | *Socket.IO, React.js, Node.js, HTML, CSS, JavaScript*

- Designed a **real-time chat application** enabling seamless communication for up to **150 concurrent users**, using **Socket.IO** for WebSocket-based messaging.
- Created a responsive **React.js** frontend, improving cross-device compatibility and reducing page load time by approximately **25%**.
- Constructed a scalable **Node.js** backend to handle message broadcasting and user sessions with **99.9% uptime**.
- Optimized communication latency, achieving a **30% reduction** in message delivery time under high traffic.

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, Java, JavaScript, SQL, Swift
- Frontend Development:** HTML, CSS, React.js, TypeScript, Tailwind CSS, Bootstrap, SwiftUI
- Backend Development:** Node.js, Express.js, Go, REST APIs, WebSockets
- Databases:** MySQL, MongoDB
- Version Control:** Git, GitHub
- Tools:** Postman, VS Code, Socket.IO

## EDUCATION

<b>Indian Institute of Information Technology, Pune (IIIT Pune)</b>	<b>2021 - 2025</b>
B.Tech in Electronics and Communication Engineering (8.21 CGPA)	Pune, India
<b>St. Paul's Higher Secondary School, Jabalpur</b>	<b>2018 - 2020</b>
Higher Secondary (78%)	Jabalpur, India
<b>Christ Church Boys' Higher Secondary School, Jabalpur</b>	<b>2008 - 2018</b>
Secondary (87%)	Jabalpur, India

## COURSE WORK

- Data Structures and Algorithms (DSA)
- Object Oriented Programming (OOPs) in C++
- Database Management System (DBMS)
- Operating System (OS)
- Artificial Intelligence (AI)
- Machine Learning (ML)

## ACHIEVEMENTS

- 97.8%ile** in JEE Mains 2021 among **1+ million participants**.
- Achieved **Knight (2006 Rated)** on [LeetCode](#), ranking in the **top 2.5% of 0.5+ million users**.
- Secured **Pupil (1340 Rated)** on [Codeforces](#), demonstrating strong competitive programming skills.
- Ranked **466** in LeetCode Contest 401 among **35,000+ participants**.
- Represented IIIT Pune at **Inter-IIIT Sports Meet 2023** in Badminton and Chess.

## POSITION OF RESPONSIBILITY

<b>Student Activity Council (SAC), IIIT Pune</b>	<b>08/2023 – 04/2024</b>
Sports Representative	
Organized an inter-college event with over <b>2000+ footfall</b> , enhancing campus engagement.	
<b>Sports Club, IIIT Pune</b>	<b>01/2023 – 04/2024</b>
Overall Coordinator	
Managed 4 events with <b>1500+ participants</b> , improving event organization and participation.	