



Tushar Bhatt

B22CS056

Bachelor of Technology

Computer Science and Engineering

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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	Indian Institute of Technology , Jodhpur	IIT Jodhpur	8.36 (Till 6th Sem)	2022-2026
Senior Secondary	Delhi Public School R.K.Puram	CBSE	96.80%	2022
Matriculation	Delhi Public School R.K.Puram	CBSE	96.60%	2020

EXPERIENCE

Centre for Development of Telematics (C-DOT), Delhi

May 2025 – July 2025

SDE Intern – Safenet Team (Networking Systems)

- Collaborated with the Safenet team to enhance Deep Packet Inspection (DPI) capabilities using DPDK, focusing on high-performance packet processing.
- Analyzed and optimized the packet formation pipeline, resulting in a 100% improvement in its performance and contributing to a 10% overall increase in system efficiency.
- Engineered a scalable testing framework using Docker Swarm, simulating 100 concurrent nodes—each issuing 10,000 requests to the Network Security System (NSS)—to stress test and validate performance under heavy load.
- Designed and implemented a terminal-based GUI using `ncurses` for real-time monitoring of firewall statistics, including per-stream traffic analysis, CPU usage, memory consumption, and custom log monitoring.

PROJECTS

• OTT - Tours and Travel Booking App

October 2025

React Native, MongoDB, Nodejs, Prisma

[App Video](#)

- Spearheaded the end-to-end development of a comprehensive, full-stack mobile travel application serving both B2C customers for direct bookings and B2B partners (travel agents) through a dedicated management portal.
- Implemented secure Authentication using OTP verification, Integrated role-based access control, multi stage Agent Wallet System, Razorpay payment gateway.

• Image-Based Query Answering

September 2024

Amazon ML Challenge, VQA

[GitHub](#)

- Built a complete pipeline for performing VQA on Image Query Answering in Amazon ML Challenge 2024.
- Employed Multimodal ML models and language processing to generate accurate query responses. Achieved an all-India rank of 106 and an F1 score of 0.55

• Evaluation of Handwritten Answer Sheets

May 24 - July 24

OpenCV, Machine Learning, Flask

[GitHub](#)

- Created an end-to-end pipeline for automatically evaluating handwritten answer sheets using advanced image processing and machine learning.
- The software can grade over 1200 answer sheets per hour with high precision, significantly reducing the grading time.
- The software ranked 2nd among 125 teams in the AutoEval Challenge NCVPRIPG'24.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, JavaScript

Frameworks/Libraries: Node.js, React.js, Express.js, JQuery

Tools/Engines: MongoDB, Git, Figma (prototyping), Renpy

DSA/CP: LeetCode, Codeforces

ACHIEVEMENTS

- Ranked 2nd amongst 125 teams in AutoEval Challenge in the National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics, IIST Trivandrum
- Secured all India Rank 106 among 20,000 teams in Amazon ML Challenge 2024.
- Achieved A* in Cryptography, which is given to the course topper.

POSITIONS OF RESPONSIBILITY

- Head, Prometeo, IITJ:** Conducted CTF, Game Jam, and Cryptic Hunt. Managed a footfall of over 400 people.
- Core Member, Google Developer Students' Club, IITJ:** Organized multiple technical workshops for over 200 students on Game Development, Web development and Machine Learning.
- Student Guide, Student Well-being Committee, IITJ:** Provided mentorship and support to 12 first-year students and helped them navigate academic, social, and personal challenges during their college life.
- Core Member, Music Society, IITJ:** Lead Vocalist for the college band, performed at multiple high-profile college events.
- Team Member, Football Society, IITJ:** 1st place in Varchas'24 and Quarter Final finish in Inter-IIT'23