

Pratham Handa

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EDUCATION

Thapar Institute of Engineering & Technology <i>B.Tech. in Computer Science & Engineering (CGPA - 9.75)</i>	Patiala, IN Aug. 2023 – June 2027
D.A.V. Public School, Ludhiana <i>Senior Secondary Examination CBSE (Percentage - 96.0%)</i>	Ludhiana, IN Apr. 2022 – Mar 2023

WORK EXPERIENCE

Full Stack Developer Intern <i>DBuck</i>	Apr. 2025 – Present Patiala, IN
<ul style="list-style-type: none">Developed a full-stack web app for a student housing startup using React, Express.js, and MongoDB.Built features like interactive listings, location search, and a landlord portal for 10k+ students.	

PROJECTS

Brain Tumor Detector <i>Python, PyTorch, YOLO, SAM, Streamlit</i> (GitHub Live)	Jul. 2025
<ul style="list-style-type: none">Architected a 3-stage deep learning pipeline for precise tumor segmentation, achieving 99.3% classification accuracy and a 97.2% IoU score.Researched and implemented a real-time diagnostic tool providing quantitative tumor analysis to aid surgical planning via high-precision, pixel-level tumor masking.	
AI-RoadIntelligence <i>Python, YOLOv8, OpenCV, SUMO, SightEngine API</i> (GitHub)	Jun. 2025
<ul style="list-style-type: none">Engineered a real-time traffic congestion reduction system using YOLOv8, processing video inputs & concurrent YouTube live streams at 45 FPS with less than 50ms processing latency.Integrated Machine Learning models with a SUMO traffic simulator to enable dynamic emergency routing and an automated alert system with less than 3 second notification time.	
RoomsonRent <i>React, Node.js, MongoDB, Docker, RESTful APIs</i> (GitHub Live)	Apr. 2025
<ul style="list-style-type: none">Deployed a containerized student housing platform with dual dedicated portals, using React, Node.js, and RESTful APIs to simplify the rental lifecycle for students and landlords.Curated a real-time property search platform with Cloudinary integration secured by JWT authentication, handling 1000+ listings with 60% faster load times and a 75% reduction in response time.	

TECHNICAL SKILLS

Languages:	C, C++, Python, JavaScript, HTML, CSS, MATLAB, R
Developer Tools:	Git, GitHub, VS Code, Docker, POSTMAN, SUMO, Node.js
Frameworks/Libraries:	React.js, Express.js, Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, OpenCV, scikit-learn
Cloud/Databases:	SQL Server, Firebase, MongoDB
Soft Skills:	Problem Solving, Analytical Thinking, Team Collaboration, Communication
Coursework:	Data Structures and Algorithms, Operating Systems, Database Management System, Object Oriented Programming, Artificial Intelligence

POSITIONS OF RESPONSIBILITY

Joint Secretary - LEAD Society <i>Thapar Institute Of Engineering & Technology</i>	Sep. 2023 – Present Patiala, IN
<ul style="list-style-type: none">Built the LEAD's official website (leadtiet.netlify.app) with a smooth, user-friendly interface.Mentored over 50 students by taking a 2-hour-long workshop on Data Structures and Algorithms (DSA).	
Technical Head - Technical Seminar On Role Of Steel <i>Civil Department, Thapar University</i>	Mar. 2024 – Apr. 2024 Patiala, IN
<ul style="list-style-type: none">Led technical operations for INSDAG steel seminar, managing logistics, designing, and hospitality.Deployed interactive landing page with 102.7% CTR and 500+ users; hosted presentations for six speakers.	

ACHIEVEMENTS

- 600+ DSA Questions** solved on [Leetcode](https://leetcode.com) and [GeeksforGeeks](https://geeksforgeeks.org), demonstrating proficiency in C++.
- Student Placement Representative** for the branch of Computer Science & Engineering at TIET.
- Reliance Undergraduate Scholar** by securing Top 5000 Rank PAN India.
- Merit III Scholarship** received for exceptional academic performance in college amounting to 1.7 Lakhs.
- Knight Badge on LeetCode** for ranking in the top 3.5% globally with a 1939 contest rating.