

Katyayani Jha

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Education

Thapar Institute of Engineering and Technology, Patiala

Expected June 2026

B.E. / B.Tech Computer Science and Engineering

Current CGPA: 9.94/10

Relevant Coursework: Software Engineering, Operating Systems, Database Management, Machine Learning, Conversational AI

Delhi Public School Vasant Kunj, New Delhi

June 2022

Class 12 CBSE: 96.8%

Vasant Valley School, New Delhi

June 2020

Class 10 CBSE: 97.2%

Skills

Python, C, C++, JavaScript, HTML, CSS, Dart, Flutter, MERN Stack (MongoDB, Express, React, Node), RESTful APIs, Ubuntu, Machine Learning, Conversational AI, SQL, Git, AutoCAD

Professional Experience

Expedia Group, Gurgaon, NCR

June 2025 - August 2025

SDE Intern

- Migrated car content delivery from a monolith to a standalone, production-ready Kotlin microservice (3+ REST APIs), serving 100% of car page content and fully decoupled from pricing.
- Implemented Redis-based async caching, reducing downstream calls by ~70% and improving API response time by 40%.

Edgematics, Pune, Maharashtra

July 2024 - August 2024

Data Analysis Intern

[Report Link](#)

- Led a cross-functional team to analyse 5,000+ customer reviews for “CityFibre”, applying NLP techniques to gauge customer sentiment, while gaining mentorship in advanced data analysis techniques for textual data and conversational AI.
- Optimized data pre-processing pipelines leveraging Python libraries, including NLTK, spaCy, and ReGex, resulting in a 25% improvement in overall data processing efficiency and accuracy.

Grant Thornton Bharat LLP, New Delhi

June 2024 - July 2024

Data Analysis Intern

[Report Link](#)

- Developed a sentiment analysis system using Python’s BERT models to analyse customer feedback in the NGO sector, leading to a 30% increase in trend insights regarding funding patterns.
- Spearheaded the presentation of complex data from customer feedback analysis, and produced two actionable reports with impactful infographics, which enabled data-driven decisions that increased NGO funding success rate by 10%.

Ernst & Young, New Delhi

July 2023 - August 2023

SDE Intern

- Conceptualized essential functionalities for an AI chatbot and incorporated a MongoDB database with a React frontend, accelerating response times for internal Gen AI projects by 60% while streamlining data access.
- Integrated API keys to streamline backend processes, improving the efficiency of chatbot responses by nearly 50%. Worked in close collaboration with senior developers, learning the industry standards for full-stack web development.

Projects & Hackathons

Realtime Conversion of Indian Sign Language (ISL) to Text and Speech

Expected December 2025

Capstone Project

- Compiled a video dataset encompassing 400+ words, to fuel a real-time ISL gesture detection system featuring Vision Transformers (ViT).
- Governed by Computer Vision and NLP, the application will generate machine-translated output in 5+ Indian regional languages along with a focus on optimising UI/UX accessibility.

J.P. Morgan Chase’s - Code for Good Hackathon

July 2025

Among 250 finalists from 50,000+ applicants

- Collaborated in a team of 6 to build a web platform for NGO *Sensing Local*, streamlining walking audits of urban roads. Implemented automated volunteer-to-road assignment (reducing manual effort by 100%).
- Enhanced user role management, and integrated in-app GPS tracking, real-time alerts, and issue logging to improve audit efficiency and transparency.

SMART INDIA HACKATHON WINNER

December 2024

National winner from over 4 lakh participants and 86,000+ teams

- Pioneered the creation of a mobile portal for livestock disease diagnosis and reporting, using Flutter and Python.
- Enabled farmers to submit images and descriptions of disease signs, access diagnostic tools and receive veterinary advice through AI-driven, preliminary treatment suggestions, reducing consultation wait times by 48 hours for 90% of users.
- Deployed the LLaMa3 model to translate the diagnoses into 7 Indian regional languages, expanding accessibility to 2,000+ farmers and improving user engagement by 60%.

University of Oxford, United Kingdom

July 2024

Summer Student

- Completed a 2 week specialised course on Cybersecurity, with a focus on Espionage, Terrorism, and Sabotage in the Cyber Age.
- Authored a 1000 word thesis on "Disinformation in the Digital Age," which analysed the growing threats posed by cyber misinformation campaigns, examining the implications for global security and data privacy.

HearSay - An Accessibility App

[Project Link](#)

- Doctorated a user-friendly mobile application with highly intuitive Text-to-Speech functionality and customisable voice settings, thereby empowering verbally impaired users to articulate thoughts and needs.
- Streamlined mobile app development, integrating SQLite and Firebase to securely store user data, achieving 99.9% uptime and facilitating seamless communication experiences for 500+ users.

Meal & Nutrition Tracker

[Project Link](#)

- Logged meals with a database of over 200 ingredients and recipes.
- Implemented automatic nutritional analysis and tracking for over 10 key nutrients, supporting personalised daily intake goals for 6 major food groups.

YelpCamp

[Project Link](#)

- Built a full-stack web platform displaying reviews, ratings, and descriptions for over 100 camping sites.
- Displayed an interactive cluster map using 20+ geographical data points to visually organise camping locations and enhance site navigation.
- Created a review and rating system with real-time update capabilities, allowing users to contribute over 50 reviews per day.

Resume Parser and Job Recommendation System

[Project Link](#)

- Engineered a system to parse resumes using a Random Forest Classifier, extracting and structuring key details such as skills, experience, and education, ensuring 98% accuracy in data extraction.
- Developed an intelligent job recommendation engine leveraging NLP and an intuitive HTML and Python interface, enhancing candidate-job matching efficiency by 70%.

Certifications

1. 'Supervised Machine Learning: Regression and Classification' offered by Stanford University and DeepLearning.AI
2. 'Flutter and Dart - The Complete Guide 2023' offered by Udemy
3. 'The Web Developer Bootcamp' offered by Udemy covering HTML, CSS, JavaScript, Node, React and MongoDB
4. 'Introduction to Front End Development' offered by Meta on Coursera

Awards & Scholarships

TIET Merit Scholarship

- Free tuition for the academic year 2025-26, 2024-25

Krishna Excellence Scholarship

- Free tuition for classes 11 and 12

Societies & Designations

Thapar Dera Bassi Toastmasters Club

President

Fine Arts and Photography Society (FAPS)

General Secretary

Backslash Computing Society (BCS)

Design Head

Music and Dramatics Society (MUDRA)

Multimedia Head

Thapar Institute Counselling Cell (TICC)

Design Department, Magazine Department