

# Mayank Kumar

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## SKILLS

- **Languages & Tools** Java, Javascript, Golang, C++, Git, Postman
- **MERN Stack:** Node, Express, React, REST APIs, MVC, JWT Auth
- **Database:** MongoDB, MySQL, Redis
- **Machine Learning:** NLP, Computer Vision, Matplotlib, Scikit-learn, Pandas, Model Training

## EXPERIENCE

### Smart India Hackathon (SIH) Semi-Finalist

Aug 2024 – Sep 2024

- *Lovely Professional University* Punjab
  - Proposed a D2C supply chain platform reducing middlemen, boosting local seller revenue and simplifying rural logistics
  - Presented the prototype before representatives of **MSME (India)** to seek funding and feedback, establishing the idea's relevance and scalability in government-aided rural initiatives through direct engagement and formal presentation rounds.
  - Used beginner-friendly tools for collaboration among 5 members, aligning UI/UX, functionality and goals under strict timelines.

## PROJECTS

### VeggieTO [Link](#)

April 2025

- *A Microservice based D2C E-Commerce Platform* MERN (MongoDB, Express, React, Node)
  - **Developed** three core services - Customer, Farmer, and Logistics - **handling** distinct business logic including order placement, produce management, and delivery tracking.
  - **Designed** a hybrid architecture combining **REST APIs** for synchronous flows and implemented **Redis Pub/Sub** as an **event bus** for asynchronous communication between services.
  - **Integrated** JWT-based authentication for secure access, **utilized** Redis for caching frequent data, **implemented** Redis Bull for job scheduling (order expiration, delivery retries), and **incorporated Razorpay** for payment processing. **Followed** MVC architectural pattern in each service for clean separation of concerns.

### MediConnect [Link](#)

March 2025 – April 2025

- *Multi-Role Healthcare management System build on Microservice Architecture* MERN (MongoDB, Express, React, Node)
  - User Service: Lets users **sign up/login**, **find nearby hospitals/pharmacies**, **order medicines**, and **book doctor appointments** – all in one place.
  - Hospital Admin Service: Helps hospital staff **manage appointments**, **track patients/doctors**, **control medical stock**, and **handle payments** securely.
  - Admin Service: Gives full control to **add/remove hospitals**, **monitor all users**, and **keep the platform safe/running smoothly**.

### WanderLust [Link](#)

December 2024 – Jan 2025

- *A web based platform for listing and booking short-term stays and experiences* ( MongoDB, Node, Express, EJS, Passport)
  - Customer Section: Lets users **sign up/login**, **search** destinations, and **book** stays with real-time availability checks.
  - Owner Section: Enables owners to **list** properties, **manage** bookings, and **update** pricing/availability instantly.
  - Comprehensive Details: Each listing **includes images**, **pricing**, **location** and **user reviews and ratings**.

## LEADERSHIP & VOLUNTEERING

- Worked as General Secretary and Content Team Head in a student organization under the Centre of Professional Enhancement. Sept 2023– Sept 2024
- Led a team to qualify for the college round in both MSME and SIH hackathons, driving innovative solutions and collaboration. Aug 2024 – Nov 2024

## CERTIFICATES

- Cloud Computing –NPTEL [Link](#) Jul 2024 – Oct 2024
- Complete Machine Learning & DS Program –GFG [Link](#) June 2024 – Aug 2024

## EDUCATION

### Lovely Professional University

Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.49**

Since Aug 2022

### Oxford Public School

Intermediate: **Percentage: 85%**

May 2021

### Oxford Public School

Matriculation : **Percentage: 96.2%**

May 2019