

Pragyanshu Tayal

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Gwalior, Madhya Pradesh

PROFILES :- [Linkedin](#)

(4*) [LeetCode](#)

[GitHub](#)

Technical Skills

Languages :- C/C++, HTML/CSS, Javascript, SQL, Node.js, Python

Framework and tools :- React.js, Informatica PowerCenter, Git

Databases :- MySQL, MongoDB

Others :- Machine Learning Basics, Data Structures and Algorithms

Work Experience

Cognizant

Sector 135, Noida

Software Engineer (July 2022 - Current)

- **Optimized Node.js backend** for the **HCM-HUB project**, developing and integrating **high-performance APIs** while resolving critical bugs to ensure **99.9% uptime**.
- **Integrated RESTful APIs** for product data, **user authentication**, and **order processing**, enhancing **system efficiency and user experience**.
- Designed a custom middleware with Redux to handle error logging and reporting, ensuring data integrity across **10** core modules, while improving debugging efficiency.
- Implemented **custom hooks** and **higher-order components** (HOCs) to reuse logic across the application, reducing code duplication by **25%**.

Praedico Global Research

Gwalior, Madhya Pradesh

Intern (May 2021 - July 2021)

- Developed the frontend of a website facilitating the buying and selling of stocks from diverse companies, alongside the listing of new company stock prices.
- **Developed a Django-based web application** with **SQLite**, optimizing database management for **faster queries** and **efficient data handling**.
- **Designed a responsive frontend** using **HTML**, **CSS**, and **Bootstrap**, enhancing **user experience by 40%** through improved UI/UX.

Projects

Real-Time Video Streaming App | React.js, WebSockets, Node.js, Firebase Auth, Tailwind CSS

- Built a **real-time video room app** with synchronized playback using **WebSockets**.
- Enabled **play, pause, seek controls** for the room creator, reflecting changes for all users.
- Integrated **Firebase Authentication** for secure access and **Axios** for dynamic video updates.
- Designed a **responsive UI** with **pop-up notifications** for user activity.

Blog Buddy A Blogging Website | Node.js, Express.js, Mongo DB, React.js | [LIVE](#)

- Developed a **blogging platform** using **Node.js**, **Express.js**, and **React.js** with **dynamic content management**.
- Designed and implemented **blog creation**, **categorization**, and **role-based access** for users and admins.
- Integrated **admin moderation tools** for content management and user support, ensuring platform integrity.

Car Price Predictor | Python, Django, Machine Learning

- Built a **machine learning model** for **car price prediction** using **Linear Regression (84% accuracy)** and **SVM (91% accuracy)**.
- Optimized model performance for **accurate price estimation** and data-driven insights.

🏆 Competitive Programming Achievements

- **TCS CodeVita 2022**: Global Rank **236 / 125K** participants
- **CodeChef SnackDown 2021**: Global Rank **63 / 20K** participants
- **Juspay Hackathon** : finalist among **7K** participants
- **Uber HackTag 2021**: Qualified among **25K** participants

Education

ITM Group of Institutions (2018-2022)

B.Tech in Computer Science & Engineering

(CGPA: 8.66)