

# PRAKHAR SINGH PARIHAR

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## Professional Summary

Highly motivated computer Science undergraduate with proven expertise in Data Structures and Algorithms and competitive programming. Adept at solving complex problems, optimizing performance, and delivering efficient, scalable solutions. Eager to leverage strong algorithmic expertise and full-stack development skills to deliver high-quality, impactful software solutions. Committed to continuous learning and applying emerging technologies to real-world challenges.

## Education

<b>B.Tech in Computer Science and Engineering</b>	Dec 2022–Present
Pranveer Singh Institute of Technology, Kanpur, <b>CGPA: 7.59/10</b>	
<b>Senior Secondary (Class 12)</b>	Apr 2020–Jan 2021
Guru Nanak Public School, Kanpur, <b>82.16%</b>	
<b>High School (Class 10)</b>	Apr 2018–Feb 2019
Dr P R Wasson Public School, Kanpur, <b>90.33%</b>	

## Projects

<b>MaizeGuard – Maize Disease Prediction App</b>	Jan 2025–Ongoing
🔗 Live Project	

- Trained a Convolution Neural Network on 6 000+ maize-leaf images spanning 5 disease categories, achieving 93 % accuracy
- Built a Flask API and React front-end, processing 20 images/min and handling 50 concurrent requests.
- Integrated image preprocessing (resizing, normalization) and ensured consistent inference performance across various input conditions.
- Tech Stack: Python, Flask, TensorFlow, Keras, NumPy , Google Generative AI , React.js , TailwindCSS

<b>BingeShop – Scalable E-commerce Platform</b>	Dec 2024 - July 2025
🔗 Live Project	

- Developed a full-stack e-Commerce platform with features such as user authentication, product listing, and secure Razorpay payment gateway, managing 500+ products efficiently.
- Implemented JWT authentication and used Redux for state management, improving the user experience by 40%.
- Designed a scalable MongoDB schema with Redis caching, reducing query time by 70%.
- Implemented pagination to efficiently load large product catalogs, enhancing performance for high traffic.
- Tech Stack: MongoDB, Express.js, React.js, Node.js, Redux, TailwindCSS, ShadeCN , JWT token, framer-motion, Razor pay, Redis

<b>RelayWire – Real-time Chat WebApp</b>	Aug 2024 - Dec 2024
🔗 Live Project	

- Built a real-time messaging platform that allows instant chat using WebSockets and supports up to 300 concurrent users.
- Integrated JWT-based authentication and authorization for secure user sessions. ▫
- Managed global state using Zustand, ensuring efficient performance and reactivity.
- Tech Stack: MongoDB, Express.js, React.js, Node.js, Socket.io, Zustand, TailwindCSS, DaisyUI

## Skills

<b>Languages:</b>	C, C++, Python, JavaScript (ES6+), TypeScript
<b>Frameworks &amp; Libraries:</b>	HTML, CSS, React.js, Next.js, Redux, Bootstrap, Tailwindcss, Node.js, Express.js, Mongoose, REST APIs, Redis ,AWS (EC2, S3),
<b>Databases:</b>	MongoDB, SQL(MySQL), Redis
<b>Tools &amp; Platforms:</b>	Git GitHub, Docker, Jest, Postman, Linux
<b>Subject of Interest:</b>	Data Structures and Algorithms, DBMS, Operating System, Computer Networking
<b>Soft Skills:</b>	Problem Solving, Analytical Thinking, Collaboration, Adaptability, Time Management

## Achievements

- **Advanced to Round 2 of L'Oréal Sustainability Challenge 2025 among top national teams.**
- **LeetCode:** Achieved the top 5% global ranking in LeetCode (1200+ solved problems) .
- Secured rank #84 out of 35000 in Naukri codequest #20 Coding Challenge- Top 0.24% nationwide.
- Salesforce Agentblazer Badge: "Adventurer"– 37 badges, 11.8k+ points, 3 trails.

## Certifications

▪ <b>Back-end app with Node.js and Express.js (IBM)</b> - 🔗 Credential	2025
▪ <b>Front-end app with React (IBM)</b> - 🔗 Credential	2025
▪ <b>Supervised Machine Learning: Regression and Classification (Stanford University)</b> - 🔗 Credential	2024
▪ <b>AWSCloudTechnical Essentials (AWS)</b> - 🔗 Credential	2024