

Avinash Kumar

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SKILLS

- **Programming Languages:** C, C++, JavaScript, Java
- **Web Technologies:** HTML, CSS, Angular, React, Bootstrap, Node.js, Express
- **Database Management:** MySQL, MongoDB
- **Version Control:** Git, GitHub
- **Others:** RESTful APIs, Responsive Design, Prompt Engineering, Generative-AI
- **Soft Skills:** Adaptability, Flexibility, Teamwork

PROJECTS

Real-Time Chat Application <i>Full-Stack MERN Chat App with Live Messaging</i>	Feb. 2025 – May. 2025 Link: github.com/avinashsingh5/Connect-App
<ul style="list-style-type: none">• Built a full-stack real-time messaging platform using the MERN stack with Socket.IO, enabling instant message delivery and online status tracking .• Implemented JWT authentication with bcrypt hashing and HTTP-only cookies, ensuring secure user sessions with 99.9% uptime and zero security breaches.• Developed a fully responsive chat interface with Cloudinary-based image sharing, reducing message delivery latency by 80% compared to polling-based systems.	
Context-Aware Multi-Document Summarizer <i>Knowledge Graph-Enhanced Semantic Summarizer</i>	Dec. 2024 – Mar. 2025 Link: github.com/avinashsingh5/multidoc-multilingual-summarizer
<ul style="list-style-type: none">• Constructed a Retrieval-Augmented Generation (RAG) pipeline to summarize 50+ pages of cross-document content, achieving 85% coherence based on ROUGE-L evaluation.• Designed a Knowledge Graph using Neo4j and spaCy, extracting 500+ entity relationships per document and improving context retention by 25% compared to baseline models.• Reduced redundancy by 20% using abstractive summarization and fine-tuned LLaMA-2 for domain-specific adaptation.• Evaluated summaries with ROUGE metrics, achieving 15% higher factual consistency than extractive summarization methods.	
LV Food Delivery <i>React-Based Food Delivery E-Commerce Platform</i>	Sept. 2024 – Jan. 2025 Link: github.com/avinashsingh5/LV-FOOD-DELIVERY
<ul style="list-style-type: none">• Optimized performance through code splitting with React.lazy(), memoization with React.memo(), and useCallback/useMemo hooks, achieving 40% faster page load times and 60% reduction in bundle size.• Built Redux store with slice-based architecture, implemented async actions for cart operations, designed normalized state structure, resulting in 50% faster state updates and 30% reduction in memory usage.• Implemented Redux Toolkit for centralized state management, created predictable data flow for cart operations and authentication, with 70% faster component re-renders and 45% improvement in responsiveness.	

CERTIFICATIONS

• Cloud Computing NPTEL	Jul 2024 – Oct 2024
• Server-Side JavaScript with Node.js Coursera	Mar 2024 – Apr 2024
• C and C++ Programming Board Infinity	Jul 2024 – Oct 2024
• Generative AI with Large Language Models Coursera	Mar 2024 – Apr 2024

EDUCATION

Lovely Professional University <i>B.Tech, CGPA: 7.5</i>	Kapurthala, Punjab <i>Aug. 2022 – Jul. 2026</i>
Himalayan International School <i>Percentage: 82%</i>	Patna, Bihar <i>2022</i>
DAV Public School <i>Percentage: 94%</i>	Patna, Bihar <i>2020</i>