

Ram Kumar

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EDUCATION

- Netaji Subhash University Of Technology** Delhi, India
Bachelor of Technology - ECE(Specialization AI and ML) CGPA: 7 2021-2025
- Sarvodaya Vidyalaya Rohini Sector-6** Delhi, India
Class XII -PCM (CBSE) 87.8% 2019-2020

SKILLS SUMMARY

- Languages:** C/C++, Python, Javascript
- Technologies:** Node.js, MongoDB, Express.js, React.js, Redux, Socket.io, spaCy, OpenCV, NLTK, FastAPI
- Tools:** Git, Github, MySQL, SQLite, VsCode, Transformers (Hugging Face LLMs, Together.ai(AI API))
- Platforms:** AWS, Docker, Kubernetes, Netlify, Heroku

EXPERIENCE

- Syrma SGS Technology** Gurgaon, India
Junior Engineer (NPI Department) July 2025 - Present
 - Embedded Development:** Develop and test embedded firmware in C/C++ for new electronic products, ensuring seamless hardware-software integration
 - Product Lifecycle:** Collaborate with design and testing teams to support the full product lifecycle from prototyping to production
 - System Optimization:** Perform debugging, validation, and optimization of embedded systems using industry-standard tools
 - Kimbal Smart Energy Meter:** Working on kimbal's 1p 3.4V kushal smart energy meter, contributed in reducing rejection ppm by 10%.

PROJECTS

- Real Time Chat Application** MERN
 - Socket.io:** Engineered a full-stack WhatsApp Web clone to master real-time communication using socket.io, including text, voice/video calls, multimedia sharing, and security.
 - REST APIs JWT:** Developed scalable RESTful APIs and optimized website architecture, ensuring seamless real-time messaging and secure user authentication with JWT.
 - Redux:** Implemented Redux for state management, reducing state-related bugs and unauthorized access by 80 Percent, while enhancing app stability and performance.
 - Simple Peer:** Integrated peer-to-peer video calling with Simple Peer, improving user engagement and interactivity with cross-browser compatibility and low-latency communication.
- E-commerce Website** MERN
 - MERN Stack Development:** Developed full-stack e-commerce platform using MongoDB, Express.js, React.js, Node.js with complete CRUD operations and secure JWT authentication
 - AI Product Recommendations:** Implemented machine learning algorithms for personalized product suggestions, improving user engagement and shopping experience
 - Admin Dashboard:** Built comprehensive admin panel with real-time analytics, user management, inventory control, and product statistics visualization
 - Authentication & APIs:** Designed secure RESTful APIs with role-based access control, JWT tokens, and user session management for admin/customer workflows
- Jarvis (AI Assistant)** AI and ML
 - NLP:** Developed a sophisticated AI assistant using Python, OpenCV, NLP, and Hugging Face Transformers, offering face recognition-based authentication and seamless task automation.
 - UI/UX :** Integrated a fast, real-time face recognition system within 0.8 second and an interactive UI to enable voice and text input/output, enhancing user interaction and experience.
 - LLMs:** Implemented a conversational AI voice assistant powered by LLaMA models, allowing task execution (e.g., opening apps, sending messages), and chat history storage for enhanced usability and personalization.

CERTIFICATION

- Excellent Certification in Data Structures and Algorithms by -CODING NINJA 2024
- Excellent Certification in C++ programming language(+OOPS) by -CODING NINJA 2023

VOLUNTEER EXPERIENCE

- Chief Editor, JAGRITI Newsletter NSUT (East Campus)** Delhi, India
Led a team to publish monthly issues, ensuring high editorial standards, and timely releases. July 2022 - Aug 2023
- Event Organizer at Moksha** Delhi, India
Managed event logistics, coordinated with teams, and ensured smooth execution of Moksha. 2023