






SHRUTI GUPTA

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PROFESSIONAL SUMMARY

Master of Computer Applications (MCA) graduate with hands-on experience in full-stack web development using the MERN stack (MongoDB, Express.js, React.js, Node.js). Built responsive, feature-rich web apps focused on performance and usability. Applied machine learning and NLP techniques in real-world projects for image detection and AI-driven user experiences. nEager to contribute to scalable, data-driven software systems.

EDUCATION

- National Institute of Technology, Raipur** Raipur, Chhattisgarh
Master Of Computer Applications (MCA) - 7.85 CPI
Aug 2023 – present
- Modern Girls College of Professional Studies, University of Lucknow** Lucknow, Uttar Pradesh
Bachelor Of Computer Applications (BCA) - 79.08%
Aug 2020 - Aug 2023

TECHNICAL SKILLS

- Frontend:** HTML5, CSS3, Tailwind CSS, JavaScript (ES6+), React.js, Streamlit
- Backend:** Node.js, Express.js, RESTful APIs
- Databases:** MongoDB, SQL
- Real-Time Technologies:** WebSocket, Socket.io
- Programming Languages:** Java, Python
- Machine Learning/NLP:** Machine Learning (ML), YOLO, OpenCV
- Version Control & Cloud:** Git, GitHub, AWS(EC2)
- Core Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Operating Systems (OS), Computer Network (CN).

PROJECTS

- CodeCast – Real-Time Code Editor** | github Apr 2025 – May 2025
Self-Project | React, Bootstrap, Socket.io
 - Enabled seamless real-time code sharing, with 10+ edits per second synchronized across all active users
 - Achieved <200ms sync latency for live code changes via WebSocket-based communication
 - Designed and optimized an Express.js backend to handle 50+ concurrent socket connections with zero data loss and 99.9% uptime
 - Supported live collaboration of 50+ users in parallel sessions with seamless code broadcasting
- TripMaster AI – AI-Based Travel Planning App** | github Jan 2025 – Feb 2025
Self-Project | React.js, Tailwind CSS, Gemini API, Firebase
 - Generated AI-powered travel plans by integrating Gemini API with location-based data and user preferences, enhancing trip accuracy by 30%
 - Reduced planning time by ~80% by auto-suggesting hotels, activities, and daily itineraries
 - Designed a 100% mobile-responsive frontend and integrated Firebase to enable real-time data sync users, reducing load time by ~25%
 - Delivered end-to-end full-stack functionality with React frontend and Gemini 2.5 Flash for handling upto 250 requests/day
- Airport & Runway Detection from Aerial Images** Jul 2025 – Present
Self-Project | Python, YOLOv11, OpenCV, Streamlit
 - Detected airports and runways from satellite images with 92%+ accuracy using YOLOv11 object detection
 - Preprocessed input images with OpenCV for improved model precision and annotation clarity
 - Deployed the model on a Streamlit web app supporting real-time image upload and prediction
 - Reduced false detection rate by ~25% through iterative tuning and dataset augmentation

ACHIEVEMENTS & CERTIFICATIONS

- Secured All India Rank (AIR) 600 in the NIT MCA Common Entrance Test (NIMCET). Jun 2023
- 5-Star Java Programmer & SQL Programmer on HackerRank. [\[View\]](#) Jul 2025
- Achieved SQL (Intermediate) Certificate from HackerRank. [\[View\]](#) Jul 2025

VOLUNTEER EXPERIENCE

- Cultural Committee Volunteer, ICAIHC-2025 Conference, IEEE & NIT Raipur. Jan 2023