Ratanveer Singh
Computer Science Engineer

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SUMMARY

I am a passionate and hardworking Computer Science engineering student with strong skills in Python, web development, and machine learning. I have built real-world projects like an AI ChatBot, a The Digital Printing Assistant, and a movie recommendation app. I enjoy solving problems and have taken part in national-level competitions like the Smart India Hackathon. I'm looking for opportunities where I can use my skills to build useful and smart software solutions.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, HTML, CSS
- Frameworks & Libraries: Flask, FastAPI, Django, Scikit-learn, TensorFlow, OpenCV, NumPy, Pandas
- Web Development: Responsive design, REST APIs, WebSockets
- Database Management: PostgreSQL, MongoDB, Firebase, SQLAlchemy
- Cloud & Deployment: Vercel, Render, Heroku
- Tools & Platforms: Git, GitHub, VS Code, Postman
- AI & ML: Model training, evaluation, deployment, data preprocessing, OpenCV for gesture & expression analysis
- Other Skills: API integration, real-time chat systems, QR code generation, automation scripts (Windows).

PROJECTS

College AI Chatbot (FastAPI)
- Developed an AI-powered chatbot for college use to answer student queries related to courses, exams, deadlines, and campus facilities.

The Digital Printing Assistant (SmartDocX)
- Developed a Django-based document printing platform allowing customers to upload documents online and send them directly to shop printers.
- Built a Windows printer agent for automatic printing and real-time order status updates.

Railway Station Navigation System (Smart India Hackathon)
- Designed a navigation solution for railway stations to help users find platforms, restrooms, and other facilities.
- Integrated real-time location tracking and user-friendly UI for better navigation experience.

Car Price Prediction Model
- Built a machine learning model to estimate car prices using features like brand, mileage, and year.
- Deployed the model using Flask for easy web-based user interaction.

EDUCATION

Baba Farid Group of Institutions
Bachelor's in Computer Science Engineering | 2022 – 2026

CERTIFICATIONS & ACHIEVEMENTS

- **AI/ML Training by Intel** – Successfully completed Artificial Intelligence and Machine Learning training conducted by **Intel** at college, including hands-on project development.
- **3rd Position – CodeVista Coding Competition** – Secured 3rd place in an inter-college coding competition at Baba Farid Group of Institutions.
- **Finalist – BFCET HACK 2.0 (National Hackathon)** – Selected as a finalist for presenting an innovative tech solution at the national-level hackathon organized by BFCET.