

Somil Jain

Fourth-Year Undergraduate, Computer Science and Engineering
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EDUCATIONAL QUALIFICATIONS

Year	Degree/Certificate	Institute	CGPA/%
2022-ongoing	B.Tech.	VIT Bhopal University, Bhopal	8.75/10
2022	Class XII (CBSE)	St. Rapheals Co-ed School, Bhopal	85.6%
2020	Class X (CBSE)	Choithram School North Campus, Indore	86.6%

INTERNSHIP EXPERIENCE

- Software Engineer Intern | VE Commercial Vehicles Limited** Oct, 2024 – Dec,2024
Python, OpenCV, QRCode.js, JavaScript , React, NodeJS, Flask, Firebase, PostgreSQL
 - Developed a computer vision pipeline to recognize cabin numbers dot-peen marked on metal surfaces using OCR.
 - Applied advanced image preprocessing techniques (grayscale normalization, morphological ops, thresholding) to enhance text visibility.
 - Fine-tuned EasyOCR for improved recognition of non-standard industrial engravings, achieving 91% accuracy.
 - Validated model performance across various lighting and surface conditions to ensure robustness in production environments.

MAJOR PROJECTS

- Dost-Bot | AI-Powered Journal Application** [GitHub]
React, FastAPI, Hugging Face, NLP, Sentiment Analysis
 - Engineered an AI-driven journal web app with sentiment analysis and personalized responses using the Google FLAN-T5-large model.
 - Built a high-performance backend with FastAPI and deployed the app on GitHub Pages, ensuring scalability and minimal latency.
 - Integrated advanced NLP techniques to deliver real-time emotional insights, enhancing user interaction and retention.
- RetailIQ | Smart Inventory Forecasting and Customer Retention** [GitHub]
Flask, Node.js, React, Machine Learning
 - Designed an AI-powered system leveraging ML models (Random Forest, XGBoost) to enable customer retention analysis and cost-to-serve optimization.
 - Built a demand forecasting engine combining behavioral and transactional data to optimize stock levels and reduce inventory wastage.
 - Ensured alignment with Walmart’s customer-centric values through AI-driven decision-making focused on efficiency and satisfaction.
- PriceSarathi | Best Price Predictions from Product History** [Google Colab]
Flask, HTML, CSS
 - Created a dynamic price prediction web interface that analyzes product image history to offer pricing insights and purchase guidance.

TECHNICAL SKILLS

Languages	Proficient: Python, C, C++ Familiar: JavaScript, Matlab/Octave/R, HTML/CSS, NodeJS, LaTeX
Platforms and Tools	OS/Softwares/Tools: Linux, Windows, Git,Figma, Canva, Photoshop
Libraries and Databases	Experienced: keras, Node.js, React.js, Jquery , numpy , pandas, PostgreSQL, MongoDB, Firestore

ADDITIONAL INFORMATION

- Silver+Elite Certificate – NPTEL Cloud Computing:** Scored 86%, placing in the top 2% out of 23,872 participants.
- Amdocs GenAI Graduate Hackathon 2024–25:** Selected as a Semi-Finalist among 10,893 participants; among the top 1% to successfully submit a working prototype.
- Accelerate Her in Tech – Hackathon by Nokia:** Cleared Round 1 from over 30,000 participants and advanced to the Code Hunt round, securing a top rank.

ADDITIONAL INFORMATION

- Languages:** Fluent in English and Hindi communication
- Hobbies:** Cricket, chess, playing musical instruments, Stock market analysis