Somil Jain

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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	**86.6%**
2020	Class X (CBSE)	Choithram School North Campus, Indore	**85.6%**

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.

- **PriceSarthi | 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: Java, Solidity, JavaScript, Matlab/Octave/R, HTML/CSS, NodeJS, LaTeX
Platforms and Tools	**OS/Softwares/Tools**: Linux, Windows, Vim, Docker, 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