

# Somil Jain

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## EDUCATION

### VIT Bhopal University

B.Tech in Computer Science And Engineering - 8.82 CGPA

Sept'2022 – May'2026

Bhopal, India

## TECHNICAL SKILLS

- **Languages:** Python (Proficient), C/C++, JavaScript, Matlab/R, HTML/CSS
- **OS/Softwares/Tools:** Linux, Windows, Git,Figma, Canva, Photoshop, Amazon Web Services (AWS)
- **Libraries and Databases:** Keras, Node.js, React, JQuery , Numpy , Pandas, PostgreSQL, MongoDB, Firestore

## WORK EXPERIENCE

### AI DevOps Apprentice | DBS Tech India

Jun, 2025 – Present

- Currently undergoing an 8-month structured training program covering: Operating Systems, RDBMS, Application Security, MariaDB, DevOps, Java, RESTful APIs, Spring Boot, Microservice Architecture, Data Analysis, Big Data (Hive, Hadoop, Spark).

### Software Engineer Intern | VE Commercial Vehicles Limited

Oct, 2024 – Dec,2024

Machine Learning Engineering Intern : Python, OpenCV, Image Processing Libraries

Bhopal, India (Onsite)

- Developed a system using Python, OpenCV, and EasyOCR to extract cabin numbers from images uploaded by users, enabling automated inspection of industrial dot-peen marked metal surfaces across 3 different cabin types.
- Trained the EasyOCR pretrained model on a custom dataset of industrial images to improve accuracy in recognizing low-contrast, challenging markings, achieving a peak confidence score of 91%.
- Implemented regex parsing to extract 9-character alphanumeric cabin numbers from OCR results and connected the system to an API for seamless data transfer and management.

## 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, leveraging its 780 million parameter architecture for nuanced understanding of user mood and intent.
- 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, enabling the model to predict and respond to 7 basic emotions, thereby 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.
- Developed a demand forecasting engine combining behavioral and transactional data to optimize stock levels and reduce inventory wastage.
- Ensured alignment with customer-centric values through AI-driven decision-making for efficiency and satisfaction.

## ACHIEVEMENTS AND AWARDS

- **Placed 13th out of 500+ teams** in the **ZelextraXaws Data Challenge (Second Edition)**, competing against **7000+ 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

- **Spoken Languages:** Fluent in English and Hindi communication
- Regularly conduct independent stock market analysis to strengthen investment insight, market research skills, and **data-driven decision-making abilities**.
- **Extracurriculars: High Commendation** as Delegate of Luxembourg in **UNODC committee at CNMUN**. Active participant in Model United Nations, Cultivating executive presence and cross-functional communication acumen.
- **UI/UX Lead, Android Club, VIT Bhopal :** Led a team of 4 UI/UX developers and 5 designers to deliver user-centric interfaces for college Android projects, coordinating design workflows and mentoring members in best practices.