

Somil Jain

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science And Engineering

Sept'2022 – May'2026

8.82 CGPA

TECHNICAL SKILLS

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

WORK EXPERIENCE

AI DevOps Apprentice | DBS Tech India

Jun, 2025 – Present

- Designed a hybrid customer segmentation pipeline (rules→MiniBatchKMeans) with MCC-based spend shares, tx per month, amt mean, and online share, improving targeting by 90% and driving segment-specific promotions.
- Established behavioral risk bands (frequency, ticket size, channel mix, diversity) to approve/deny promotions and exported a single contract (customer recommendations.csv) for downstream systems.
- Operationalized with reproducible controllers, pinned Python deps, and container-ready CLIs (XGBoost, scikit-learn), ensuring low-latency scoring and consistent releases.
- Completing an 8-month structured apprenticeship covering OS, RDBMS, Application Security, MariaDB, DevOps, Java/Spring Boot, REST, Microservices, Data Analysis, and 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 a Hugging Face emotion/sentiment pipeline to label entries and FLAN-T5 to generate empathetic replies, delivered through REST APIs used by the React client.

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

- **Finalist out of 500+ teams** in the **ZelestraXaws 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

- 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 :** **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.