

Saaz Bhargava

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EDUCATION

SRM Institute of Science and Technology, Chennai

2022 – 2026

B.Tech in Computer Science (Data Science), CGPA: 8.37/10. Relevant areas: Machine Learning, Deep Learning, Data Structures, DBMS, DevOps.

EXPERIENCE

E-commerce Data Analytics Intern, Kaushalam Creations

May 2025 – Jun 2025

- Analysed Shopify and Etsy sales datasets to identify top-performing SKUs, demand trends, and customer behaviour patterns influencing revenue planning.
- Built interactive dashboards for pricing and inventory decisions, improving product-level visibility and enabling faster data-driven planning.
- Automated validation workflows for data pipelines, reducing manual QA effort by **30%** and improving reporting accuracy.
- Collaborated with marketing and operations teams to translate analytics into actionable strategies and campaign insights.

PROJECTS

MemoryPal – AI Study Assistant (RAG System)

Developed and deployed an AI-powered study assistant converting notes into summaries, flashcards, and Q&A. Built a full RAG pipeline using Sentence-Transformers and FAISS for context-aware responses. Implemented spaced repetition with SQLite and deployed on Streamlit Cloud with caching, chunk optimisation, and secure API handling.

SA-EffNetB3 – Diabetic Retinopathy Detection

Designed an attention-guided EfficientNetB3 model for 5-class DR grading on Messidor-2. Achieved **95.77% validation accuracy** with <5M parameters. Addressed class imbalance using augmentation and oversampling, integrated Grad-CAM for explainability, and optimised for edge deployment (<20MB).

Fraud Detection MLOps Pipeline

Engineered an end-to-end production MLOps pipeline for IEEE-CIS fraud detection (590k transactions) using XGBoost + SMOTE, achieving ROC-AUC **0.93**. Integrated MLflow tracking and model registry, DVC data versioning, FastAPI serving with Pydantic validation, and GitHub Actions CI/CD with AUC-PR gating. Implemented Evidently AI for drift monitoring, Docker containerisation, and 47 pytest unit tests with 100% pass rate.

SKILLS

Languages: Python, JavaScript, SQL

AI/ML: PyTorch, TensorFlow, NLP, RAG pipelines, LLM APIs, Attention Models, Data Augmentation

Web & Backend: Node.js, Express, FastAPI, REST APIs, React

Databases: MongoDB, SQL, SQLite

Tools: Docker, GitHub Actions, CI/CD, FAISS, Streamlit, Postman, AWS, GCP, Azure (Open AI)

CERTIFICATIONS

IBM Python for Data Science, AWS ML Foundations, Infosys ML with Python, Goldman Sachs Virtual Program, MongoDB Certified Developer Associate, NYU Risk Management

LEADERSHIP

Committee Head – Aaruush (SRM Tech Fest); Creatives Member – Placements Forum