

# Ishvi Jain

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## TECHNICAL SKILLS

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Python, C++, MySQL, PostgreSQL, Machine Learning, Deep Learning, NLP, PyTorch, Scikit-learn, Pandas, NumPy, Seaborn, Matplotlib, RESTful APIs, PowerBI, Visual Studio Code

## WORK EXPERIENCE

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### Anomaly Detection in Time Series — Project Intern, MCF-ISRO | Nov 2024 – Jan 2025

- Analyzed 50,000+ satellite sensor records to identify operational anomalies using clustering techniques.
- Improved abnormal behavior detection rate by 15% through data-driven model optimization and validation.
- Reduced data noise and outliers by 20%, increasing clustering accuracy by 12% and improving precision from 78% to 90%
- Engineered 4+ time-series features (rolling mean, variance, lag features, FFT components), improving anomaly separability and increasing clustering stability score by 18
- Automated end-to-end anomaly detection pipeline in Python, reducing manual inspection time by 35% and accelerating anomaly reporting turnaround from 2 days to under 6 hours.
- Prepared analytical summaries and insights to support monitoring and operational decision-making

## PROJECTS

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### Zomato Data Analysis | Python, Pandas, Seaborn, Numpy, Matplotlib

- Performed end-to-end Exploratory Data Analysis (EDA) on 140+ restaurants using Python to evaluate pricing strategy, customer ratings, and service penetration
- Identified that only 25% of restaurants offered online delivery and 12% provided table booking, uncovering untapped digital adoption opportunities for growth-focused markets.
- Developed visual dashboards (histograms, heatmaps, countplots) to present actionable business insights.
- Delivered actionable findings on restaurant performance, customer preferences, and service usage to inform marketing and operational strategies.

### Promptly | FastAPI, React, scikit-learn, Hugging Face

- Built an end-to-end AI content generation system using FastAPI, integrating NLP tasks such as intent classification and sentiment analysis
- Integrated HuggingFace transformer models with robust fallback and error-handling mechanisms for reliable inference cutting manual content creation time by 75%.
- Implemented semantic document retrieval to improve content relevance and quality with reliable fallback handling

### DocChat | AWS Bedrock, LangChain, FAISS, Streamlit

- Designed a Retrieval-Augmented Generation (RAG) system using LangChain, FAISS, and AWS Bedrock, enabling semantic search over 100+ PDFs.
- Improved answer grounding and reduced hallucinations by 35% through retrieval-based context injection.

## CERTIFICATIONS

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Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Oct 2025

Supervised Machine Learning: Regression and Classification — DeepLearning.AI

Dec 2025

## EDUCATION

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### Vellore Institute of Technology

*Bachelor of Technology in Electronics and Communication Specialization in AI – CGPA: 8.11*

*Nov 2022 – Present*

### St. Josephs' Convent Sr. Sec. School

*Senior Secondary (12<sup>th</sup>) – 75.2%*

Bhopal, MP

*July 2022*

### St. Josephs' Convent Sr. Sec. School

*High School (10<sup>th</sup>) – 90.2%*

Bhopal, MP

*April 2020*