

# JAYASHREE SHARMA

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## EDUCATION

Bachelor of Technology, Computer Science Engineering Nov 2022 – Present  
**VIT Bhopal University, Bhopal** CGPA: 8.33

Bachelor of Science, Data Science and Applications Sep 2022 – Present  
**Indian Institute of Technology, Madras**

## EXPERIENCE

**Machine Learning Intern, [NKSPAIR]** Dec 2024 – Feb 2025

- Automated the anomaly detection process by implementing an unsupervised learning model, reducing the time required for manual data review by 8 hours per week.
- Engineered a data cleaning pipeline in Python to process and validate over 10 GB of raw sensor data, significantly improving data quality for model training.

## TECHNICAL SKILLS

- Programming Languages:** Python, SQL, C++
- Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, MS Excel
- Database Management:** MySQL, PostgreSQL
- Data Engineering Tools (BASICS):** Apache Airflow, ETL pipeline, APIs, Web Scraping
- Machine Learning (Basics):** Scikit-learn, Regression, Clustering, Isolation Forest

## PROJECTS

### Machine Learning and Blockchain: AI-Verified Sustainability Ledger

- Implemented an anomaly detection model using the Isolation Forest algorithm on a dataset of over 100,000 mock sustainability records, achieving a 98% accuracy rate in identifying irregularities like emission spikes and water overuse.
- Integrated Hyperledger Fabric 2.4.9 to create a tamper-proof ledger, processing and securing over 500 verified data transactions per hour for third-party auditors and consumers.
- Engineered a QR code system capable of handling 1,000+ unique products, enabling real-time visualization of sustainability footprints to enhance consumer trust.
- Developed a transparent, blockchain-based record-keeping system that reduced potential for greenwashing and decreased audit times by an estimated 30%.

### Data Science: Customer Personality Analysis

- Employed K-means clustering and other machine learning algorithms to analyze over 50,000 rows of customer behavior data, successfully categorizing customers into 5 distinct personas.
- Preprocessed and cleaned a large customer feedback dataset with 25+ features using pandas, improving data quality and reducing model training time by 20%.
- Developed detailed persona profiles using 15+ visualizations (matplotlib, seaborn), leading to a targeted marketing strategy projected to enhance customer engagement by 15-20%.

## CERTIFICATES

**Microsoft Certified - Azure AI Fundamentals** ID: F4A1FF728E2D40B7 — Certification Number:  
1CCD73-1C64F7

**Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** ID: 102760767OCI25AICFA

**Oracle Cloud Infrastructure 2025 Certified Data Science Professional** ID: 102760767OCI25DSOCP

## ACHIEVEMENTS

**All India Rank 3 - India Space Lab Winter Internship Examination 2024-2025** India Space Lab  
Secured AIR 3 in the prestigious national-level examination organized by India Space Lab.