

JAYASHREE SHARMA

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EDUCATION

Bachelor of Technology, Computer Science Engineering
VIT Bhopal University, Bhopal

Nov 2022 – Present
CGPA: 8.31

Bachelor of Science, Data Science and Applications
Indian Institute of Technology, Madras

Sep 2022 – Present

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

Jun 2023

ID: F4A1FF728E2D40B7 — Certification Number: 1CCD73-1C64F7

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Sept 2025

ID: 102760767OCI25AICFA

Foundation Level Certification in Programming and Data Science - IIT Madras

Jun 2024

ACHIEVEMENTS

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

India Space Lab