JAYASHREE SHARMA

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EDUCATION

Bachelor of Technology, Computer Science Engineering *09/2022 – Present*
VIT Bhopal University, Bhopal *CGPA: 8.31*
Courses: Data Structures and Analysis of Algorithm, Operating Systems, Computer Networks, Database Management Systems, OOPS with C++

Bachelor of Science, Data Science and Applications *09/2022 – Present*
Indian Institute of Technology, Madras
Courses: Data Structures and Algorithm in Python, Database Management Systems, Modern Application Development, Programming Concepts in Java, Programming in Python

SKILLS AND COMPETENCIES

Languages: Python (Pandas, NumPy, Matplotlib), C++, Java, JavaScript, SQL
Technical: Data Analysis, Data Visualization, MERN Stack (MongoDB, Express.js, React.js, Node.js), MySQL, PostgreSQL, Microsoft Excel, Power BI, AWS, Azure

PROJECTS

Machine Learning and Blockchain: AI-Verified Sustainability Ledger

- Implemented an anomaly detection system using the Isolation Forest algorithm to identify irregularities in mock sustainability data (e.g., emissions, water usage).
- Integrated Hyperledger Fabric 2.4.9 for tamper-proof storage of each stage's verified data, enabling real-time access by third-party auditors and consumers.
- Enabled product-level QR code scans to visualize a product's verified sustainability footprint, enhancing consumer trust and brand accountability.
- Enabled transparent, tamper-proof sustainability records to reduce greenwashing and support auditability.

Data Science: Customer Personality Analysis

- Employed advanced Machine Learning algorithms, including clustering techniques such as K-means, to analyze and categorize customer behavior patterns for accurate persona identification.
- Implemented data visualization strategies using Python libraries, including pandas for data manipulation and matplotlib for creating insightful visualizations.
- Utilized pandas, a powerful data manipulation library in Python, to preprocess and clean large Starbucks customer feedback datasets, ensuring accurate input for machine learning models.

CERTIFICATES

Microsoft Certified - Azure AI Fundamentals *06/2023*
ID: **F4A1FF728E2D40B7** — Certification Number: **1CCD73-1C64F7**
Successfully achieved the certification of Azure AI Fundamentals, showcasing proficiency in foundational AI concepts, Azure AI services, and practical knowledge of machine learning workflows.

Foundation Certificate, IIT Madras *06/2024*
Completed the foundational level in the BS degree in Programming and Data Science from **IIT Madras**.

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.