Harsh Verma

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Summary

BSc Artificial Intelligence & Machine Learning student with a strong foundation in Python, SQL, and data analytics, backed by end-to-end project experience in data pipelines, web scraping, and algorithmic problem-solving. Seeking a Software Engineering / Data Science internship to contribute to scalable systems and data-driven solutions at a leading technology company.

Education

Marwari College Ranchi **[Expected Graduation Year: 2027]**
BSc in Artificial Intelligence & Machine Learning *CGPA: 6.8*

DAV Public School, Hehal **[Passed: 2024]**
Class XII (Senior Secondary) CBSE *78%*

Skills

Professional Skills: Communication, Organization, Time Management, Teamwork, Attention to Detail
Recruitment Interests: Candidate Sourcing, Resume Screening, Interview Coordination
Programming Languages: Python, C++, SQL
Data Science & Analytics: NumPy, Pandas, Matplotlib, EDA, Data Cleaning
CS Fundamentals: OOPs, Data Structures & Algorithms, Complexity Analysis
Databases: SQL, SQLite, Joins, Subqueries, Views, Indexes, Stored Procedures, Transactions
Tools: Git, GitHub, Jupyter Notebook, VS Code

Projects

SmartCart | Customer Segmentation Using Machine Learning github.com/harsh-verse/SmartCart
Tech Stack: Python, Pandas, NumPy, Scikit-learn, PCA, K-Means, Agglomerative Clustering, Matplotlib, Seaborn

- Processed 2,240 customer records, retaining 2,236 after outlier filtering, and engineered customer features to analyze demographics, income, and purchasing behavior.
- Reduced the feature space to 3 PCA components, explaining 44.95% of variance, and implemented 2 clustering algorithms to segment customers into 4 clusters, evaluating cluster configurations using the Elbow Method and Silhouette Score.

Loan Approval Prediction System github.com/harsh-verse/CreditWise_Loan_System
Tech Stack: Python, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib

- Developed a machine learning pipeline to analyze 1,000 loan applicant records, implementing data preprocessing, feature engineering, and classification.
- Compared 3 classification algorithms—Logistic Regression, K-Nearest Neighbors, and Gaussian Naive Bayes; achieved 88% accuracy, 86.61% recall, and 80.90% F1-score with Logistic Regression.

Weather Dashboard github.com/harsh-verse/Weather-dashboard
Tech Stack: Python, Requests, OpenWeather API, JSON

- Developed a Python weather dashboard using the OpenWeather API to retrieve real-time weather data for 200,000+ cities, displaying 4 key parameters: temperature, humidity, wind speed, and weather conditions.
- Implemented JSON-based search history and error handling for 3 failure scenarios: invalid inputs, API failures, and network connectivity issues.

End-to-End E-Commerce Sales Analytics Pipeline github.com/harsh-verse/Ecommerce-Sales-Analytics
Tech Stack: Python, Pandas, NumPy, Matplotlib, SQLite, File Handling

- Designed a modular, object-oriented Python pipeline that automated data cleaning for 5,000+ sales records, improving data quality by 95%.
- Calculated 10+ KPIs, including the top-selling products and top 10 customers, using Pandas GroupBy and aggregation over 12 months of data and built 8+ visualizations with Matplotlib.

Certifications

- Intro to Machine Learning - Kaggle, Aug 2026
- Prompt Engineering for ChatGPT – Great Learning Academy, Sep 2024