

Shivani Vishwakarma

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SUMMARY

Data Analyst with hands-on experience in Python, SQL, Power BI, Machine Learning, and AI-powered data applications through internship and project work. Skilled in data cleaning, exploratory data analysis (EDA), ETL processes, dashboard development, and business reporting. Experienced in analyzing datasets of over 100,000 records, building KPI-driven dashboards, and developing AI-assisted tools that automate data understanding and insight generation. Proficient in transforming raw data into actionable business insights using statistical analysis, visualization, and workflow automation.

SKILLS

- **Programming & Querying:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL
- **Data Visualization & BI Tools:** Power BI, Microsoft Excel (Pivot Tables, VLOOKUP, Data Analysis)
- **Machine Learning:** Scikit-learn, Regression, Classification, Feature Engineering, Model Evaluation
- **Core Data Analytics Skills:** Data Cleaning, Data Preprocessing, Exploratory Data Analysis (EDA), Statistical Analysis, Data Visualization, KPI Monitoring, Business Intelligence Reporting
- **Tools & Platforms:** Git, GitHub, AI Tools (Claude AI, Julius AI, Formula Bot)

EXPERIENCE

Data Analyst Intern

CodeAlpha | Remote Internship

10th May 2026 - 10th June 2026

- Performed exploratory data analysis and data preprocessing on multiple real-world datasets using Python.
- Developed machine learning models for classification and regression tasks using Scikit-learn.
- Conducted unemployment trend analysis and created visualizations to identify patterns and economic insights.
- Built predictive models including car price prediction and sales forecasting projects.
- Applied data cleaning, feature engineering, model evaluation, and data visualization techniques.
- Collaborated in a project-based environment while following industry-standard data analytics workflows.

PROJECTS

Trader Performance vs Market Sentiment | Data Analysis Project

- Processed 100,000+ trading records along with Fear & Greed Index sentiment data
- Built a time-series pipeline to align trading activity with market sentiment signals
- Engineered key metrics such as PnL, win rate, leverage, and trade size for performance analysis
- Examined how sentiment impacts risk-taking patterns, activity levels, and profitability
- Identified stronger performance during Extreme Greed and reduced activity during Extreme Fear

AI Data Explainer | AI-Powered Data Analysis Tool

- Developed a Flask-based AI application that automates dataset understanding and exploratory analysis for CSV and text-based datasets.
- Integrated Pandas and OpenRouter LLM APIs to generate dataset summaries, detect missing values, identify data types, and simplify technical terminology.
- Automated repetitive data exploration workflows, reducing the effort required to understand unfamiliar datasets.
- Designed the solution from a business workflow perspective to accelerate data analysis and improve insight generation.
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Weather Analytics Dashboard | Power BI Project

- Built a real-time weather analytics dashboard using live Weather API data
- Performed ETL using Power Query to transform and structure nested JSON datasets
- Designed a relational data model for dynamic filtering and interactive analysis
- Developed KPI dashboards for temperature, humidity, UV index, and visibility tracking
- Created trend and correlation analysis between weather variables
- Built an interactive dashboard with slicers and conditional formatting for better usability

EDUCATION

Bachelor of Science in Data Science

Indian Institute of Technology Madras

2024 - Present

Relevant Coursework: Data Structures & Algorithms (Python), DBMS, Statistics for Data Science, Mathematics for Data Science, and Modern App Development.