

Jay Hemnani

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Summary

Data Analyst with production experience building automated reporting pipelines, interactive dashboards, and forecasting models across hospitality and supply chain domains. Skilled in SQL, Python, Tableau, and statistical analysis — translating complex datasets into actionable business insights.

Technical Skills

Programming: Python, SQL (Advanced), R, JavaScript
Analytics & Statistics: Pandas, NumPy, Scikit-learn, Statistical Analysis, A/B Testing, Hypothesis Testing, Regression, Cohort Analysis
Visualization & BI: Tableau, Power BI, Plotly, Streamlit, Dash, Excel (Advanced), Google Sheets, Data Storytelling
Databases: PostgreSQL, MySQL, MongoDB, BigQuery, Data Warehousing, Star Schema Design
Data Processing: ETL/ELT Pipelines, Data Cleaning, Data Validation, Apache Airflow, dbt
Tools: Git, Jupyter Notebooks, Google Analytics, Mixpanel, Looker

Experience

- Data Analyst, Elite Hotel Group Summer 2025 | San Jose, CA
- Automated daily revenue and occupancy reporting across 5 hotel properties using SQL and Python, eliminating 15+ hours/week of manual Excel consolidation and reducing data delivery lag from 2 days to same-morning.
 - Built executive dashboards in Tableau tracking occupancy rates, RevPAR, and ADR trends across properties, adopted by revenue management team for weekly pricing reviews.
 - Developed demand forecasting models using ARIMA and regression on 2 years of booking data, improving 30-day occupancy prediction accuracy by 18% over baseline heuristics.
- Technical Consultant 2022 – 2024 | Remote
- Delivered analytics engagements for 4 small businesses, building KPI dashboards in Tableau and Google Sheets that tracked conversion funnels, churn rates, and campaign ROI.
 - Designed A/B testing framework for an e-commerce client, analyzing experiment results with statistical significance testing that drove a 12% lift in checkout conversion.
- AI/ML Intern, Amnex Jan – May 2022 | Gujarat, India
- Analyzed 500K+ transaction records to identify fraud patterns, building classification models (Random Forest, XGBoost) achieving 94% precision with SMOTE for class imbalance handling.
 - Created automated operational dashboards tracking daily transaction volumes, fraud rates, and false positive trends, reducing manual reporting effort by 30%.
- Software Engineering Intern, Cactus Creatives May – Nov 2019 | Gujarat, India
- Built internal analytics reporting tools using Python and SQL, automating weekly performance reports that previously required 5+ hours of manual data collection.

Projects

- Stock Data Platform — Financial Analytics Dashboard | Python, SQL, Airflow, TimescaleDB, Dash
- Built interactive financial dashboard in Dash with rolling indicators (SMA, EMA, Bollinger Bands), intraday heatmaps, and customizable time-window filtering for market trend analysis.
 - Designed star schema data model (FactPrices + 4 dimension tables) optimized for analytical queries, reducing average dashboard load time by 60% through proper indexing and partitioning.
 - Orchestrated automated ETL pipelines in Airflow ingesting daily market data with validation checks, deduplication, and reproducible data lineage tracking.
- OptiSupply — Supply Chain Analytics | Python, SQL, Pandas, Plotly/Dash
- Analyzed order and shipping data across 50+ suppliers in 8 countries, building risk scoring models that identified high-delay vendors contributing to 30% of late deliveries.
 - Created what-if scenario dashboards for procurement teams to simulate vendor rebalancing, projecting 15% shipping cost reduction and 20% delay improvement.
 - Designed normalized data warehouse schema integrating ERP, TMS, and WMS sources, enabling cross-functional analytics that reduced inventory carrying costs by 10%.
- BarcaBrain — Sports Analytics Platform | Python, Pandas, Streamlit, Plotly
- Engineered feature pipeline transforming 200K+ match events into 50+ per-player performance metrics, enabling quantitative scouting analysis across 10,000 players.
 - Built interactive comparison dashboard in Streamlit with filtering by league, position, and age, enabling like-for-like player discovery in <100ms query time.

Education

- Pandit Deendayal Energy University (PDEU) 2018 – 2022 | Gandhinagar, India
B.Tech in Computer Engineering | GPA: 8.7/10
 - Coursework: Statistics, Big Data Analytics, Database Systems, Business Intelligence.