

Jay Hemnani

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📍 Gujarat, India (Open to Relocate)

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, Amnexus

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.