JAY HEMNANI

jayhemnani992000@gmail.com | GitHub: github.com/jayhemnani9910

San Jose, CA

Education

San José State University   Jan 2025 – Present | San Jose, CA
M.S. in Applied Data Intelligence
- **Coursework:** Data Visualization, Data Warehousing, Big Data Analytics, Machine Learning, Statistical Methods.

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.

Technical Skills

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

Experience

Data Analyst, *Elite Hotel Group*   Summer 2025 | San Jose, CA
- Engineered **automated reporting pipelines** using SQL and Python, reducing manual reporting effort by **40%** and improving data consistency across multi-property analytics.
- Designed and deployed **interactive dashboards** in Tableau and Power BI for occupancy, revenue, and KPI tracking, enabling data-driven decision-making for revenue management.
- Developed **demand forecasting models** using time-series analysis and regression techniques, improving booking prediction accuracy to support dynamic pricing strategies.

Independent Technical Consultant,   2022 – 2024 | Remote
- Provided **data analytics consulting** for small businesses, building dashboards, reports, and automation solutions for business intelligence.

AI/ML Intern, *Amnex*   Jan – May 2022 | Gujarat, India
- Built **fraud detection analytics** using ensemble ML models achieving **94% precision**, presenting findings to stakeholders with actionable recommendations.
- Developed **analytics dashboards** with statistical models for operational reporting, automating KPI calculations and anomaly detection across business metrics.

Software Engineering Intern, *Cactus Creatives*   May – Nov 2019 | Gujarat, India
- Built **data pipelines and reporting tools** for internal analytics; configured automated workflows reducing manual effort by **60%**.

Projects

Stock Data Platform — Financial Analytics Dashboard | *Python, SQL, Airflow, TimescaleDB, Dash*
- Built **interactive financial dashboards** in Dash displaying rolling indicators (SMA, EMA), intraday heatmaps, and time-window filtering for market analysis.
- Designed **ETL pipelines** with Airflow for automated data ingestion, validation, and transformation with reproducible data lineage.
- Created **star schema data model** (FactPrices + dimensions) optimized for analytical queries and dashboard performance.

BarcaBrain — Sports Analytics Platform | *Python, Pandas, Streamlit, SQL*
- Designed **analytics dashboard** for player comparison and scouting, displaying clusters, similarity scores, and attribute deltas for 10,000+ players.
- Built **feature engineering pipeline** transforming raw match events into actionable metrics for recruitment analysis.
- Created **interactive visualizations** enabling rapid like-for-like player discovery with filtering by role, league, and performance metrics.

Kayak — Travel Analytics | *Python, SQL, Tableau*
- Built **booking analytics dashboards** tracking conversion rates, search patterns, and revenue metrics across travel services.
- Analyzed **user behavior patterns** to identify optimization opportunities for search ranking and recommendation algorithms.