Het Patel

hhpatel@wpi.edu | (508) 7627609 | linkedin.com/het | United States | GitHub

SKILLS

- SQL | Power BI | Tableau | Excel | Data Analytics | Data Cleaning & Normalization | Reporting | Dashboard Development
- Trend Analysis | Business Intelligence | Data Visualization | KPI Monitoring | Query Optimization | Data Processing
- Financial & Portfolio Analysis | Python | R | Tidyverse | Pandas | Operational Strategy | ETL | Market Segmentation

WORK EXPERIENCE

PureSky Energy, Denver, Colorado   **May 2024-Dec 2024**
Data Analyst Intern

- Reduced **manual processing** time by 73% and error rates by 96% by developing **custom Regex-based** extraction algorithms to filter invoice data from 500+ PDFs and automating data ingestion into Smartsheet via Flask API
- Elevated reporting efficiency by 50% and enhanced **data accuracy** by designing an **ETL pipeline** in **Alteryx**, integrating 40+ solar project datasets from 3+ disparate sources to generate consolidated **Life-to-Date Savings** Reports
- Enabled $55K in **cost savings** over six months by building interactive **Power BI** dashboards with **DAX** queries, providing real-time insights into solar energy cost savings and **project performance trends**

Ventura Securities, Mumbai, India   **Jan 2023-Jul 2023**
Product Marketing Analyst Intern

- Amplified **market penetration** by 27% by performing customer segmentation analysis in **Power BI**, leveraging demographic, behavioral, and transactional data to identify and target high-value customer groups
- Boosted initial traction by 23% by applying **sentiment analysis** on social media mentions and reviews using **Python's NLP libraries**, uncovering customer preferences and improving brand engagement strategies
- Refined product-market fit by identifying key trends and gaps through **data-driven** market research, analysing historical transaction data, **customer churn** patterns, and emerging financial trends, leading to optimized product positioning

Param Exports, Manhattan, New York   **Oct 2021-Sep 2022**
Business Analyst Intern

- Augmented **customer segmentation** accuracy by 83% by analysing customer purchase behaviours and classification patterns, leveraging **decision trees** and **random forests** to identify high-value customer groups for targeted sales strategies
- Increased cross-selling effectiveness by 15% by analysing sales transaction data using **association rule mining** (Apriori Algorithm) to uncover frequently purchased diamond combinations, driving strategic bundling recommendations
- Streamlined sales performance tracking and risk mitigation by designing an interactive **Tableau dashboard**, visualizing diamond price fluctuations, demand trends, and **key risk indicators** (KRIs) to support data-driven pricing and risk strategies

EDUCATION

Worcester Polytechnic Institute, Worcester, MA, USA   **Aug 2023-May 2025**
MS in Information Technology   **(CGPA 3.6/4)**
University of Mumbai, Mumbai, India.   **Aug 2019-May 2023**
Bachelor of Engineering in Information Technology   **(CGPA 3.8/4)**

ACADEMIC PROJECTS

Real Estate Restaurant Analysis

- Optimized restaurant site selection by 35% by designing an **SQL-based data pipeline**, performing **spatial joins** with **Geo Pandas** to match income levels and location boundaries, ensuring accurate **decision-making**
- Improved data reliability by 50% by implementing **data normalization** and **preprocessing** techniques, cleaning inconsistent restaurant records scraped from 20+ real estate and food delivery websites
- Enhanced revenue forecasting accuracy by 20% through trend analysis of restaurant sales data and **Power BI visualizations**

Stock Market Data Analytics & Predictive Insights

- Developed **Tableau** dashboards integrated with **Python** and **Yahoo Finance API** to retrieve real-time stock data, improving market data accessibility by 30% and enhancing **data-driven decision-making** efficiency by 40%
- Applied **technical and fundamental analysis** methodologies, incorporating moving averages, RSI, and MACD indicators, to refine investment strategies and optimize risk assessment
- Engineered stock price prediction models by automating **data preprocessing**, **correlation analysis**, and **historical trend** visualization, reducing manual effort by 60%, and increasing portfolio performance insights by 25%

Product Rating Predictor

- Increased product rating prediction accuracy by 20% by performing **data normalization** and **preprocessing**, cleaning **messy sales data** using **Pandas** and **SQL-based transformations** to enhance model input quality
- Optimized product launches by analysing sales patterns and integrating **SQL joins** for **predictive analytics**
- Enabled **KPI monitoring** with a **Tableau** dashboard visualizing sales trends and **customer sentiment**