

# HIREN PATEL

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## SKILLS

- **Analytical Tools:** Microsoft POWER BI, Tableau, Advanced Excel, SPSS
- **Programming Languages:** Python (Pandas, TensorFlow, NumPy, Matplotlib, Scikit-learn), R, SQL, C#
- **Database:** Microsoft SQL Server, MySQL, MongoDB
- **IDE:** VS code, Anaconda, Deepnote, Google Colab
- **ITSM:** Jira service management
- **Cloud Technologies:** Azure Machine Learning
- **Web Technologies:** HTML, JavaScript, jQuery, CSS, ReactJS JSON, PHP, REST
- **SDLC Methodologies:** Agile, Waterfall

## WORK EXPERIENCE

### Data Analyst Intern,

Sep 2020 – Aug 2021

Petlad Sojitra Ta. Sauraurja Utpadak Sahkari Mandali Ltd., Petlad, India

- Conducted market research on solar energy trends and regulations, providing recommendations to management on potential expansion opportunities.
- Developed custom Python scripts using **Pandas** library to automate data extraction and preprocessing, reducing data ingestion time by 50%.
- Designed, developed, and maintained big data pipelines.
- Streamlined data collection processes, which reduced data entry time by 15% and made data gathering more efficient.
- Utilized time series analysis techniques to identify seasonal patterns and trends in sales data, enabling accurate forecasting of future sales.
- Collaborated with different cross-functional teams to develop data-driven solutions to improve system performance.
- Responsible for providing cost-benefit analyses on various solar energy projects, that led to 10% profit in ROI.
- Reviewed customer behavior data to identify trends for process improvement and operational efficiency, resulting in a 12-15% reduction in customer complaints.
- Built comprehensive Tableau dashboards to visualize sales trends and customer behaviors, resulting in a 16% increase in sales revenue and a 10% reduction in customer churn.
- Utilized agile methodologies to reduce project delivery time by 3 days.
- Provided regular reports and presentations to senior management on key performance indicators related to production and customer behaviors.
- Identified and resolved data inconsistent that were causing errors in billing and customer usage tracking.
- Gained valuable experience in data analysis, business analysis and project management.

### Business Analyst CO-OP,

Aug 2019 – May 2020

Hatkesh Infotech Ltd., Anand, Gujarat, India

- Coordinated and led a team of 5 in the analysis of 7-8 projects; presented findings to senior executives using data visualization tools and dashboards, resulting in a 25% increase in funding for the data analytics department.
- Gathered and documented requirements for new projects and enhancements using Visio, ensuring alignment with business goals and objectives.
- Managed multiple projects simultaneously using waterfall methodology, ensuring on-time delivery within budget constraints.
- Experienced in conducting quality assurance and quality control checks on research data using SPSS to ensure data accuracy, consistency, and validity.
- Contributed to a 10% increase in sales by assisting in the development of an innovative marketing campaign.

**SQL Developer Summer Intern,**  
 Hari Smruti Infotech Solutions, Anand, Gujarat, India

Jun 2018 – Jul 2018

- Assisted 5-6 team members in data extraction, transformation, and loading using SQL and Excel.
- Optimized data pipeline performance by tuning SQL queries and implementing caching mechanisms, resulting in a 25% improvement in data processing speed.
- Engineered modern applications with team members using .Net Frameworks, HTML, CSS, Java, JavaScript, SQL Server, and No SQL. Created custom websites for small business owners using PHP, HTML and Java.
- Designed databases and managed a group of 12 tables. Automation increased efficiency by 15%.
- Created a weekly status update session with key stakeholders to facilitate reliable connectivity across departments, reducing email threads by 50% and enhancing project transparency.

## ACDEMIC PROJECTS

### MORTGAGE RATE PREDICATION | Python

- Trained the model and tested it and evaluated performance of the regressor models using various metrics such as **RMSE, MSE, R2** which helped to measure the extent to which the model can minimize this difference and make accurate predictions. Deployed mortgage rate predictor using the **Flask** framework.

### BRAIN STROKE PREDICATION | Azure ML, Tableau

- Developed a brain stroke prediction model and deployed using **Azure Machine Learning** to help with early detection of stroke and improve patient outcomes. Visualized the performance and accuracy using interactive **Tableau** dashboard.

### JP MORGAN CHASE & CO. STOCK ANALYSIS | Python, Excel

- Conducted stock price analysis for JPM Chase & Co as part of an academic project, tabulated **Utilizing ratio** and **Value calculations**, as well as implemented technical analysis tools such as **Bollinger Bands, Monte Carlo Simulation, Simple and Exponential Moving Averages**, and **Facebook Prophet**.

### MOVIE REVIEWS SENTIMENT ANALYSIS | NLP

- Developed a movie reviews sentiment analysis model using **NLP** techniques such as **Text Processing** and **CountVectorizer** to create bag of words model and machine learning algorithms to analyze and classify over 50000+ movie reviews into positive, negative, or neutral sentiments.

### CUSTOMER CHURN ANALYSIS | PowerBI

- Successfully conducted customer churn analysis using **Power BI** and identified key factors such as short tenure and high monthly charges that contribute to customer churn.

## EDUCATION

**Postgraduate, Data Analytics for Business**  
 St. Clair College, Windsor, Ontario | GPA: - 3.41/4

Sep 2021 –May 2023

**Bachelor of Engineering, Information Technology**  
 Gujarat Technological University, Ahmedabad | GPA: - 3.15/4

Aug 2016 –Aug 2020