HIREN PATEL

+13438678687 | Calgary, Alberta | hiren.dantali@gmail.com | LinkedIn | GitHub

❖ Analytical and detail-oriented Data Analyst with a passion for extracting meaningful insights from complex datasets. Proficient in leveraging advanced statistical techniques and data visualization tools to drive informed decision-making. Strong background in market research, data analysis, and predictive modeling.

TECHNICAL SKILLS

- **Analytical Tools**: Microsoft Power BI, Tableau, Advanced Excel, SPSS
- **Programming Languages:** Python (Pandas, NumPy, TensorFlow, Scikit-learn), R, SQL, C#
- **Visualization:** Matplotlib, Seaborn
- **Database:** Microsoft SQL Server, MySQL, MongoDB
- **IDE:** VS code, Anaconda, Deepnote, Google Colab
- **ITSM:** Jira service management
- **Cloud Technologies:** Azure Machine Learning
- **Web Technologies:** HTML5, JavaScript, jQuery, CSS, ReactJS, JSON, PHP, REST
- **SDLC Methodologies:** Agile, Waterfall

EDUCATION

Postgraduate, Data Analytics for Business   Sep 2021 –May 2023
St. Clair College, Windsor, Ontario

Bachelor of Engineering, Information Technology   Aug 2016 –Aug 2020
Gujarat Technological University, Ahmedabad

WORK EXPERIENCE

Research Data Analyst   Sep 2020 – Aug 2021
Petlad Sojitra Solar Energy Ltd., Petlad, India

- Conducted comprehensive market research on solar energy trends and regulations, driving strategic recommendations for management and capturing a 20% increase in market share.
- Developed custom Python scripts using Pandas library to automate data extraction and preprocessing, reducing data ingestion time by 50%.
- Led end-to-end testing and validation of ETL processes, ensuring data accuracy and integrity, while reducing data errors by 25%.
- Reduced data entry time by 25% by streamlining data collection processes, which also enhanced the efficiency of data gathering.
- Incorporated automated data scraping, wrangling and data loading for internal applications, and gained 30% increase in customer satisfaction while bringing down the analysis effort by 50%.
- Created impactful Power BI dashboards to visualize sales trends and customer behaviors, fueling a 16% increase in sales revenue and a 10% reduction in customer churn.
- Utilized Data Analysis Expressions (DAX) to create calculated columns and measures in Power BI, enabling advanced calculations and aggregations based on business requirements.
- Implemented agile methodologies, reducing project delivery time by an average of 3 days.
- Attained 99.1% incident free performance score for timely and precise root cause analysis.
- Actively operated with prominent energy providers, service partners and managed outsource providers for infrastructure support, maintaining project success rate of 99.6% - FY 20/21.

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.
- Built, updated, and optimized custom SQL queries and database views for Tableau data extracts.
- Analyzed business requirements and levels of detail available in the data to create over 30 complex Tableau reports.
- Designed various user level centric, interactive Tableau dashboards & stories which effectively catered to the decision makers.
- Built over 20 Extract-Transform-Load jobs to retrieve data from DB2 database to a staging Maria DB and, further load this data into

clustered MySQL Datawarehouse after imputation and structural transformations using Pentaho.

- Developed a flask web application to replace static Tableau reports, in turn reducing the expense on Tableau licenses by 30%.
- Setup a framework to ingest data into MySQL procedure and tables via pipeline from a Kafka messaging source stream.

Data Analyst   Oct 2018 – Aug 2021
Freelance, Anand, Gujarat, India

- Collaborated with various clients on data analysis projects, delivering insights to drive business decisions.
- Utilized Excel extensively for data cleaning, manipulation, and visualization.
- Proficient in advanced Excel functions, including VLOOKUP, INDEX-MATCH, and SUMIFS, to clean and transform raw data for analysis.
- Prepared comprehensive reports and visualizations using Excel charts, graphs, and pivot tables to communicate findings effectively.
- Successfully completed 6 projects, delivering actionable insights that helped clients optimize their business strategies.
- Streamlined data analysis workflows by developing Excel templates and standardized processes, reducing project completion time by 15%.

Software Developer Summer Intern   Jun 2018 – Jul 2018
Hari Smruti Infotech Solutions, Anand, Gujarat, India

- 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, HTML5, 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 using SSMS. Automation increased efficiency by 15%.
- Independently developed 3 .Net web applications and SQL server databases, including SQL triggers & procedures for data driven management and auditing purposes. This initiative increased the team's project delivery rate by 25%.
- Initiated a weekly status update session with key stakeholders, enhancing communication and ensuring reliable connectivity.

SELECTED PROJECTS

- <u>Mortgage rate prediction</u> | Python, VSCode
  - Led a project to develop a machine learning model for accurately predicting mortgage interest rates.
  - Gathered and preprocessed historical rate data of Canada, performed feature engineering, trained models, and presented findings to support decision-making.
  - Deployed mortgage rate predictor using the Flask framework, increasing prediction accuracy by 15%.
- <u>Applied Machine Learning</u> | Python, JupyterLab, Excel
  - Analyze performance and optimize various machine learning models through cross validation and hyperparameter tuning.
  - Data Transformation: Principal component analysis, ROC, standard and min max scaler, correlation analysis, feature extraction.
  - Models: Bagging, Boosting, Ensemble models, Decision trees, K-Nearest Neighbors, Neural Network, Support Vector Machine.
  - Results: Automated reporting of various model performance and 12% improvement in predictive scores of 3 models.

EXTRACURRICULAR ACTIVITIES

- Top 1% in Machine Learning Challenge 6 out of 7500+ participants hosted on HackerEarth Platform.
- Selected for ACM ICPC Gwalior-Pune Regional Contest 2018-19.
- Selected for the onsite round of Brainwave 2019 out of 10200+ participants organized by Societe Generale.
- Selected for 3 Address Code Offline hackathon organized by Johnson & Johnson out of 3300+ participants.
- Received a full scholarship for tuition fees of B.E from Government.
- Won several programming competitions in national level techfest.

CERTIFICATION

- **Google Data Analytics Professional Certificate**
  Issued by Google | Completion Date: July 12, 2023

  This certification covered comprehensive data analytics skills including data cleaning, analysis, visualization, and model deployment using various tools such as Python, SQL, and Tableau.