

SOURAV PAL

DATA ANALYST

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SUMMARY

Versatile BI Developer with a robust background in crafting impactful solutions across Qlik Sense, Power BI and Tableau. With 3 years of hands-on experience, I specialize in designing, developing, and optimizing BI applications. My skill set extends to translating intricate business requirements into intuitive visualizations and reports. Eager to channel my technical proficiency and analytical mindset into a dynamic team environment in Delhi/NCR, fostering data-driven success.

EDUCATION

BACHELOR OF COMMERCE

2016-2019

DELHI UNIVERSITY

EXPERIENCE

Data Analyst | Dedicated Freight Corridor Corporation of India Ltd 2021-Present

- Designed, developed, and maintained BI applications across Qlik Sense, Power BI, and Tableau, delivering actionable insights and fostering data-driven decision-making for internal stakeholders.
- Collaborated with cross-functional teams to comprehend business requirements, translating them into interactive visualizations, dashboards, and reports across multiple BI platforms.
- Optimized data loading and extraction processes in Qlik Sense, Power BI, and Tableau, enhancing overall application performance.
- Crafted complex measures, KPIs, filters, and visualizations to proficiently display key data trends and performance indicators.
- Partnered with data engineers to construct QVDs and implemented data transformations, ensuring heightened data quality and accuracy across all BI tools.
- Conducted meticulous testing and debugging of applications, maintaining a commitment to accurate results and data integrity.
- Regularly reviewed and enhanced existing Qlik Sense, Power BI, and Tableau applications, identifying areas for improvement to elevate user experience and functionality.
- Provided training and support to end-users, enabling them to harness the full potential of Qlik Sense, Power BI, and Tableau for comprehensive data analysis.

➤ Data Entry Operator | Property gallery 2018 - 2021

- Experienced data entry operator with 3 years of experience in accurately and efficiently entering and managing large volumes of data. Proficient in using data entry software and Microsoft Office applications. Skilled in verifying data accuracy and completeness and ensuring data security and confidentiality.



PROJECTS

➤ DFIS (Dedicated Freight Information System)

Developed a comprehensive dashboard to provide insights into the operations and assets of DFCCIL. The dashboard, sourced from a web API, delivers a holistic view of DFCCIL's railway assets, with a specific focus on locomotives, crew, and train operations. Key features include:

- **Data Components Displayed:** Train runs, train speed, wagon details, rolling stock, and commodities being transported.
- **Time-Based Analysis:** Data displayed for various time periods—yesterday, last week, last 30 days, and the past year—with comparative analysis against previous years.
- **Technical Aspects:** Implemented incremental data loading and year-over-year comparisons to ensure up-to-date and relevant insights.

➤ OMS Dashboard (Oscillation Monitoring System Dashboard)

Developed the Oscillation Monitoring System (OMS) Dashboard to oversee and evaluate irregularities in the oscillatory behavior of rail carriages during transit. This Dashboard provides a comprehensive analysis of track conditions and aids in detecting potential issues that may impact rail operations. Key features include:

- **Purpose and Utility:** Enabled detailed observation of rail carriage oscillation patterns, facilitating the identification and resolution of track anomalies and maintenance needs.
- **Data Integration and Storage:** Utilized Microsoft SQL Server for managing and analyzing extensive historical data on track health across various segments.
- **Geospatial Visualization:** Displayed peak oscillation points on a map with accurate latitude and longitude coordinates, allowing for precise tracking and assessment of track conditions.
- **Section-Specific Access:** Implemented section-based access controls, enabling field officers to view and manage data specific to their assigned track sections, thus optimizing maintenance and monitoring efforts.
- **Reporting and Distribution:** Integrated the dashboard with NPrinting to automate the generation and distribution of weekly reports to management and relevant users, ensuring timely updates and informed decision-making.

This dashboard significantly enhanced proactive maintenance capabilities and operational efficiency through actionable insights, tailored access controls, and automated reporting.

➤ Employee Claim Dashboard

- **Aggregate Overview:** Summarized total claim amounts by department and location, offering a broad view of expenditure patterns.
- **Detailed Analysis:** Enabled granular examination by highlighting employees with the highest claim amounts and those with the greatest frequency of claims.
- **Claims Breakdown:** Included comprehensive details of each individual claim, facilitating the analysis of the total payouts made to each employee over specific periods. This tool significantly improved the ability to track and analyze employee claims, providing valuable insights into spending trends and individual claim behaviors.

➤ DFCCIL PROGRESS Dashboard

Developed and implemented the DFCCIL Dashboard to provide an in-depth summary of project status and case management. This comprehensive tool encompasses the following key elements:

- **Work Progress:** Detailed visualization of the overall project status, including the percentage of work completed and the remaining tasks.
- **Financial Overview:** Tracks total payments made to contractors from the inception of the project up to the present date, offering a clear view of financial commitments and expenditures.
- **Timeframe Coverage:** Ensured data accuracy and relevance by including a historical perspective from the project's start to the current date.
- **Case Management Insights:** Monitored DAB (Dispute Adjudication Board) and arbitration cases, providing a detailed breakdown of:
 - The total number of cases filed,
 - The number of cases that have been resolved,
 - The number of cases still pending resolution.
- **Case Status Details:** Offered insights into the current stage of each case, facilitating a better understanding of ongoing disputes and their resolution status.

This dashboard empowered project managers and stakeholders by delivering a comprehensive, real-time view of both project progress and case management, enhancing decision-making and operational efficiency



SKILLS

- Qlik Sense Development, N Printing, Qlik Management Console
- Power BI Development, Power BI Service
- Tableau Desktop, Tableau Prep, Tableau Server
- Data Modeling, Data Transformation, Data Visualization and Dashboards
- QVD Creation and Management
- SQL and Data querying
- Complex Measure Creation
- Data Analysis and Reporting



CERTIFICATION

Career Essentials in Data Analysis learning path by Microsoft and LinkedIn