Data Visualization & Analytics Using Power BI

Industry
Industrial Engineering

Technology
Power BI Desktop | Azure SQL DB

CONSULTANCY – DEVELOPMENT

ABOUT PROJECT

The client provides elevator diagnostics, remote monitoring, and predictive maintenance solutions that:

- Utilize IoT to connect elevators/lifts to the Cloud
- Gather data from the sensors
- Transform that data into valuable business insights

They weren't able to see a clear picture of the elevator operations (i.e. KPI monitoring and reporting). They partnered with Helios Solutions to implement Power BI for data visualization and analytics.

THE REQUIREMENT

- Solve data inconsistency issues
- Integrate a business intelligence tool for data visualization and analytics
- Ease and accuracy in KPI monitoring and reporting

> "Interactive reports generated using Power BI Desktop provides the elevator technicians with instant diagnostic capabilities due to which they are able to identify points of repair before a breakdown occurs."

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CHALLENGES

- Developing custom, interactive reports
- Using Power Query to load data
- Using Data Analysis Expressions (DAX) to solve a number of basic calculation and data analysis problem

COMPONENTS

SOLUTION

Helios provided the client with a dedicated team of Power BI and Azure SQL DB experts that helped them understand and deploy Power BI –

- Provided Power BI walk through and understanding
- Developed interactive reports that use real-time elevator data by establishing a seamless connection with Azure SQL DB
- Utilized Power Query to load data in the application
- Made use of Data Analysis Expressions (DAX) to solve data analysis problems that include UTC handling
- Generated Power BI PDF reports and enabled automated sending of these reports

BENEFITS

Intuitive custom reports

Data visualization capabilities

Increase in the bottom-line performance of elevators