Data Visualization & Analytics Using Power BI

Industry
Industrial Engineering

Technology
Power BI Desktop | Azure SQL DB

marici

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 Marici 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


Sensors


Edge gateway with cellular

Microsoft Azure Cloud


Power BI Desktop

BENEFITS

Intuitive custom reports

Data visualization capabilities

Increase in the bottom-line performance of elevators

SOLUTION

Marici 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