Happiest Minds Digital Twin Consulting Offering

Digital twins have become essential in efficiently managing industry operations. These digital replicas enable early issue detection, offer valuable insights into performance, and provide crucial data for planning and predictive analysis by integrating data and artificial intelligence. This optimization enhances efficiency while reducing downtime. By incorporating digital twins, we can maintain efficiency and cost-effectiveness.
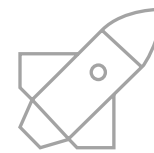
Efficiently manage operations in Manufacturing Industry

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Primary challenges

1. Time to Market
2. Environment Sustainability
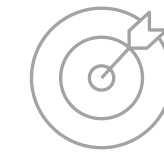3. Product Quality
4. Revenue

Ideal solution

Digital twins have emerged as indispensable elements in managing operations.

They enable the early detection of potential issues, offer valuable insights into the performance, and supply essential data for planning and predictive analysis, leveraging data and artificial intelligence. This, in turn, allows manufacturing industries to optimize efficiency and minimize downtime.

Digital twins can continuously monitor and fine-tune equipment performance, ensuring they operate at their highest potential. .Operators can sustain efficient and economical operations by integrating digital twins.

Desired outcomes

1. Reduction in Infra and Operation cost

2. Turnaround time for end customers is reduced.

3. Achieved increase in revenue within a span of a year.

Happiest Minds 2 Weeks Consulting Offering

- Subject matter experts from Happiest Minds would interact to understand the business problem.

- Provide solution and roadmap to overcome the customer challenges.

- Suggest the best approach for Implementing Digital Twin

- Suggest technology stack for Implementing Digital Twin

- Provide timelines for providing Proposal with estimated cost.

Deliverables

1. Our Understanding and scope document

2. Technical and Functional Architecture for Implementing Digital Twin

3. Benefits customer can leverage implementing Digital Twin

4. Timeline for submitting end to end proposal

Happiest Minds , Digital Twin consulting Offering , and Microsoft Azure Digital Twin

- Digital twins have become essential in efficiently managing industry operations. These digital replicas enable early issue detection, offer valuable insights into performance, and provide crucial data for planning and predictive analysis by integrating data and artificial intelligence. This optimization enhances efficiency while reducing downtime. By incorporating Microsoft Azure digital twins, we can maintain efficiency and cost-effectiveness.

Data Gathering leveraging Azure IOT hub

Gather real-time data from the wind turbine through sensor inputs and transmit it to the Microsoft Azure IoT Hub

Process Data using Azure functions

Azure functions will assess and store this data in a Time Series Database for future use

Predictive Analysis

The Time Series Data will be employed for in-depth analysis, supporting predictive maintenance tasks through Microsoft Azure's AI-ML Services.

Happiest Minds Digital Twin Consulting offering

happiest minds
The Mindful IT Company
Born **Digital** . Born **Agile**

Microsoft
Solutions Partner