Predictive Maintenance

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出发啦！！！

Project Description

- We want to determine if a machine is going bad, using ML.
- We used a variety of technologies such as Azure, PySpark and Zeppelin.

Exploring The Data

- Using Zeppelin, we built a data set for the model.
- We created a feature vector of 12 hours intervals of the changes.

Train The Model

- Using Azure ML and PySpark we created several different models.
- Eventually, we decided to go with a decision tree model.

Adjusting The Model

- We need to adjust our model to InsightEdge.
- The product's purpose is to increase performance of clustered servers.

Adjusting InsightEdge

We adjusted the product to our needs:

- Off-Heap Memory.
- Non-Volatile data.
- The data is loaded on initialize.

Connection To BI Tool

- We connected the model to BI tool.
- The BI tool we chose is Tableau, due to its simplicity for the user.

Data Files - Machines, Errors, Telemetry, Failures, Maint.

INSIGHTEDGE

Zeppelin Notebook

Spaces

Tableau