Dashboard for Model Evaluation

OVERVIEW

CHALLENGE

A global bank's trading electronification team wanted to evaluate their trained models to ensure they were performing as expected, identify any data quality issues, and improve the models. However, team members were spending time writing code each time they evaluated a model, and the code was stored in multiple repositories with limited governance and coding standards, making the evaluations prone to errors.

SOLUTION

The Treliant team created a dashboard to provide interactive visualizations and tools to check the models' performance and evaluate the training data. The dashboard allowed users to interactively check metrics like word similarity inside a 2d / 3d space for model evaluation via scatter and bar plots. Users were also able to test how well the model performs by feeding test data within the dashboard and checking the model's output.

APPROACH

The Treliant team used Plotly/Dash to create a centralized dashboard that visualized training data such as word clouds, histogram plots, and data tables, allowing team members to quickly evaluate models at a glance. The team also provided recommendations for future use of Dash and Plotly.js, helping to overcome maintenance and performance issues within an integrated web application.

RESULTS

- ✓ The dashboard allowed team members to evaluate models more efficiently, saving time and effort on model optimization
- ✓ The interactive visualizations and tools provided by the dashboard helped identify data quality issues and improvements in the models
- ✓ The use of Plotly/Dash helped ensure governance and coding standards for the model evaluations, reducing errors and improving overall accuracy.

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