gitops cicd continuous-delivery git

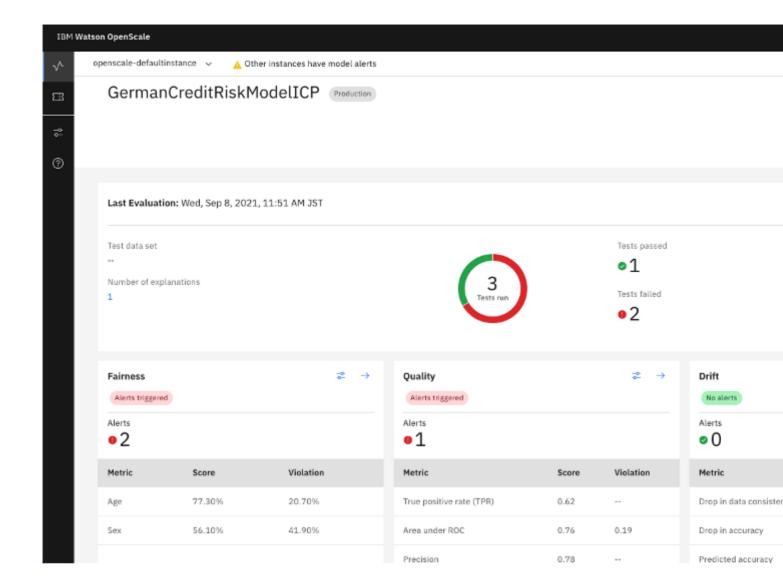
Watson OpenScale

After you deploy a machine learning model, the work doesn't stop. To guarante functioning in production as expected, you must have a plan for monitoring the updating it as needed. As part of your end-to-end MLOps process, consider IBM evaluate model deployment to make sure they are fair, accurate, and performing

When OpenScale is installed or provisioned as part of your Cloud Pak suite, you details for a deployment, then run scheduled evaluations that measure dimensions thresholds you set. For example, if you want to test whether predicted outcome various age groups, you can configure the Fairness monitor to evaluate the outcome group, such as young adults, and compare the results to the age group most like results. If the results deviate more than a threshold you specify, you will get an require attention. The dimensions you can test are:

- Fairness: Configure a monitor for fairness to check if your model produces is different groups, like gender or race. Set thresholds to measure predictions group compared to a reference group.
- Quality: Configure a monitor for quality to assess your model's performance data. Set quality thresholds to track when a metric value falls outside an ac
- Drift: Configure a monitor for drift to ensure your deployments are up-to-date feature importance to determine the impact of feature drift on your model.
- Explainability: Configure explainability settings to understand which feature model's predictions. Different methods like SHAP and LIME are available to

All of the evaluation results can be reviewed and monitored in a single dashbox example:



For more information check out the official documentation or the example Note

In this use case we use Watson OpenScale to automatically verify:

- whether the model is performing at a constant high accuracy. If performance threshold we set, an alert is triggered.
- whether the test data produces output that is similar to the training data. If deviation, we are alerted that it might be time to retrain the model.
- whether the model is discriminating against a particular group. In this case for older customers to ensure they are being treated fairly as compared to

Results are automatically checked by Watson OpenScale whenever new data is one of the checks fails, an alert will be send to the responsible person so that so

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