**Monitoring Report For demo**

**Project: bank\_churn**

**Time Interval:** *2023-05-06* to *2023-06-05*

Project **bank\_churn** contains **1 model(s)** and **1 dataset(s)** as summarized below. During this time interval a total number of **9 alert(s)** were triggered for this project.

**Datasets**

|  |  |  |
| --- | --- | --- |
| Dataset ID | Source | Size (#Rows) |
| bank\_churn | baseline.csv | 4000 |

**Models**

|  |  |
| --- | --- |
| Model ID | Model Type |
| churn\_classifier | binary\_classification |

**Alert Summary**

|  |  |
| --- | --- |
| **Critical Alerts** | **Warning Alerts** |

**Alert Rules and Incidents**

**DATA\_INTEGRITY Alerts**

**Rule:** Missing estimated salary 1

(model\_id=churn\_classifier, metric=MISSING\_VALUE, column=estimatedsalary, warning\_threshold=0.05, critical\_threshold=0.1)

|  |  |  |  |
| --- | --- | --- | --- |
| model\_id | severity | value | date |
| churn\_classifier | CRITICAL | 35.0 | 2023-05-06 |
| churn\_classifier | CRITICAL | 36.0 | 2023-05-07 |
| churn\_classifier | CRITICAL | 44.0 | 2023-05-08 |

**PERFORMANCE Alerts**

**Rule:** Accuracy Churn Classifier

(model\_id=churn\_classifier, metric=ACCURACY, column=, warning\_threshold=0.7, critical\_threshold=0.65)

|  |  |  |  |
| --- | --- | --- | --- |
| model\_id | severity | value | date |
| churn\_classifier | WARNING | 0.66 | 2023-05-06 |
| churn\_classifier | WARNING | 0.69 | 2023-05-07 |
| churn\_classifier | WARNING | 0.66 | 2023-05-08 |

**DATA\_DRIFT Alerts**

**Rule:** Output Drift Churn Classifier

(model\_id=churn\_classifier, metric=JSD, column=probability\_churn, warning\_threshold=0.15, critical\_threshold=0.2)

|  |  |  |  |
| --- | --- | --- | --- |
| model\_id | severity | value | date |
| churn\_classifier | CRITICAL | 0.22 | 2023-05-06 |
| churn\_classifier | WARNING | 0.2 | 2023-05-07 |
| churn\_classifier | CRITICAL | 0.22 | 2023-05-08 |

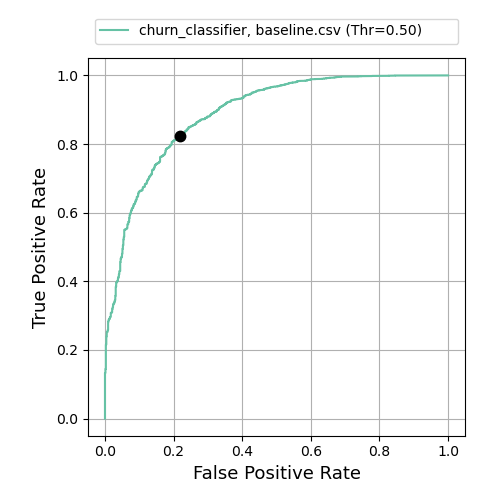
**Baseline Model Performance**

**Performance Summary**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Dataset | Source | Accuracy | F1 | AUC |
| churn\_classifier | bank\_churn | baseline.csv | 0.82 | 0.88 | 0.89 |

**Performance Charts**

ROC Curves



Confusion Matrices

|  |  |
| --- | --- |
| **Model:** churn\_classifier **Dataset:** bank\_churn **Source:** baseline.csv |  |

**Performance Analysis**

|  |  |
| --- | --- |
| **Model:** churn\_classifier **Metric:** accuracy **Segmentation:** geography **Segmentation Mode:** all |  |