# mnist - Model Evaluation Summary

This table summarizes the performance of the top symbolic models.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Symbolic Rank** | **Symbolic Score** | **ROC AUC** | **Average Precision** | **Accuracy** | **F1 (Minority)** | **Precision (Minority)** | **Recall (Minority)** | **F1 Rank** | **ROC AUC Rank** | **AP Rank** | **Accuracy Rank** |
| IForest | 1 | 4.2 | 0.7835 | 0.2405 | 0.8573 | 0.2574 | 0.247 | 0.2686 | 4 | 1 | 3 | 4 |
| LUNAR | 2 | 3.1 | 0.7587 | 0.3197 | 0.8802 | 0.3765 | 0.3614 | 0.3929 | 1 | 2 | 1 | 1 |
| MO\_GAAL | 2 | 3.1 | 0.7184 | 0.2269 | 0.8612 | 0.2709 | 0.2624 | 0.28 | 3 | 3 | 4 | 3 |
| SO\_GAAL | 2 | 3.1 | 0.6012 | 0.1524 | 0.8511 | 0.2006 | 0.1983 | 0.2029 | 5 | 5 | 5 | 5 |
| LOF | 3 | 2.0 | 0.6728 | 0.2443 | 0.8712 | 0.2921 | 0.2958 | 0.2886 | 2 | 4 | 2 | 2 |