# PIMA - 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** |
| LUNAR | 1 | 2.8 | 0.6722 | 0.5031 | 0.6654 | 0.2551 | 0.5714 | 0.1642 | 1 | 1 | 1 | 1 |
| AutoEncoder | 1 | 2.8 | 0.6278 | 0.4458 | 0.6471 | 0.2145 | 0.4805 | 0.1381 | 3 | 2 | 2 | 3 |
| VAE | 1 | 2.8 | 0.5396 | 0.3989 | 0.6484 | 0.2197 | 0.4872 | 0.1418 | 2 | 4 | 4 | 2 |
| LOF | 1 | 2.8 | 0.6014 | 0.418 | 0.6315 | 0.1502 | 0.3846 | 0.0933 | 4 | 3 | 3 | 4 |
| DevNet | 1 | 2.8 | 0.4061 | 0.312 | 0.6107 | 0.1333 | 0.2987 | 0.0858 | 5 | 5 | 5 | 5 |