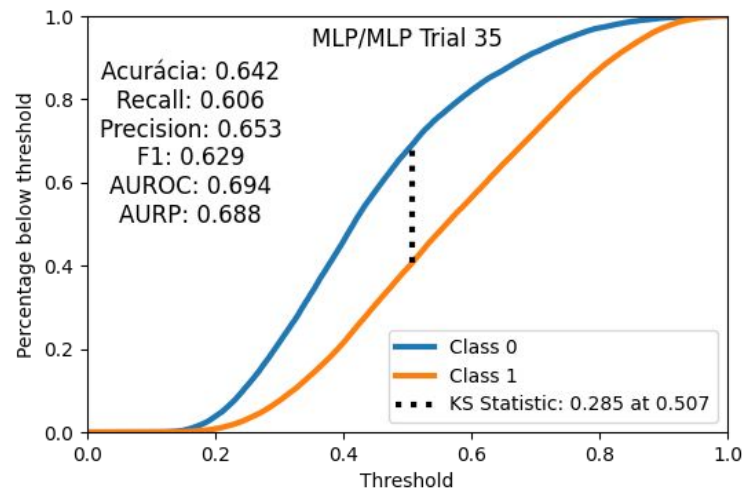
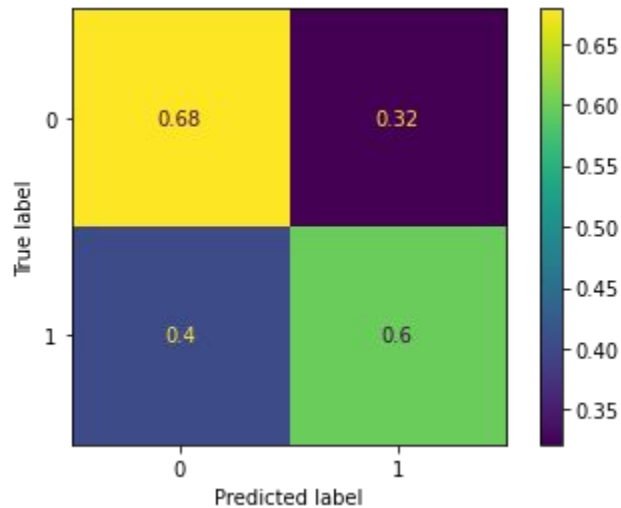


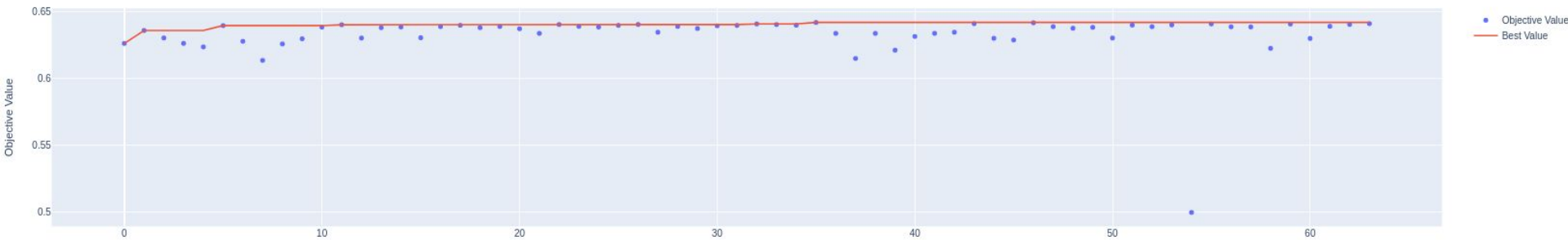
Redes Neurais 2021.1

- Adriano Felipe Cabral Filho (afcf)
- Felipe Rodrigues de Souza (frs3)
- Lucas Vinícius José da Silva (lvjs)
- Pedro José Carneiro de Souza (pjcs)
- Vitor Sousa Silva (vss2)

MLP

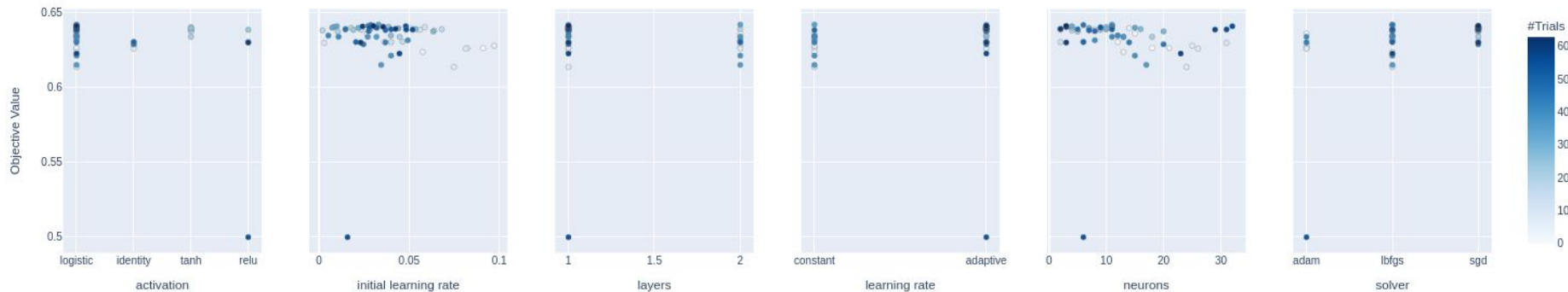


Optimization History Plot

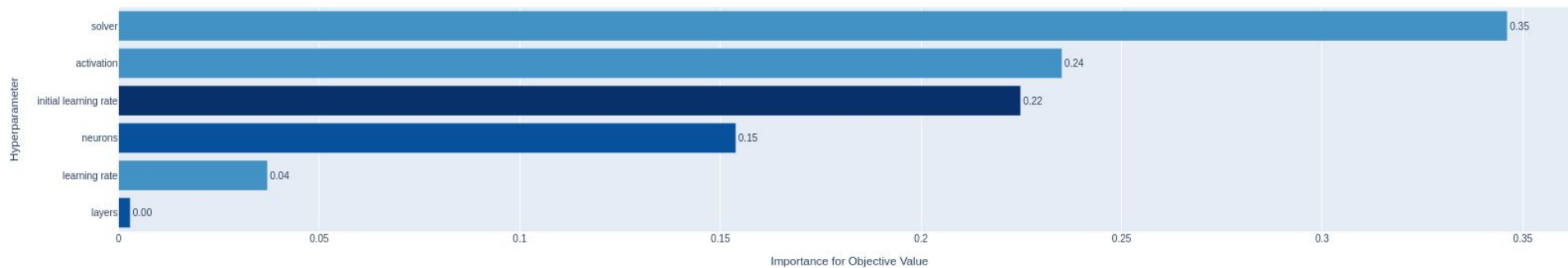


MLP

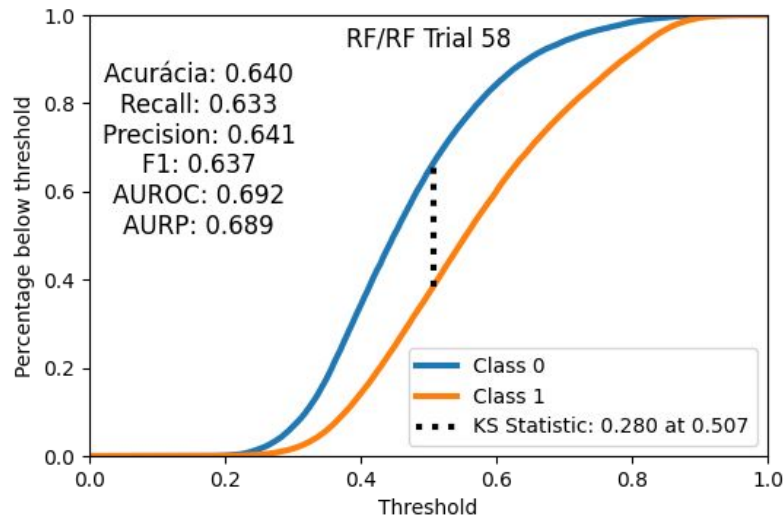
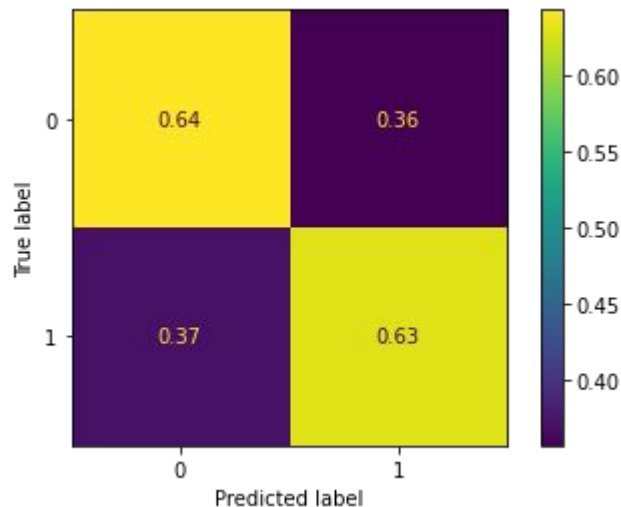
Slice Plot



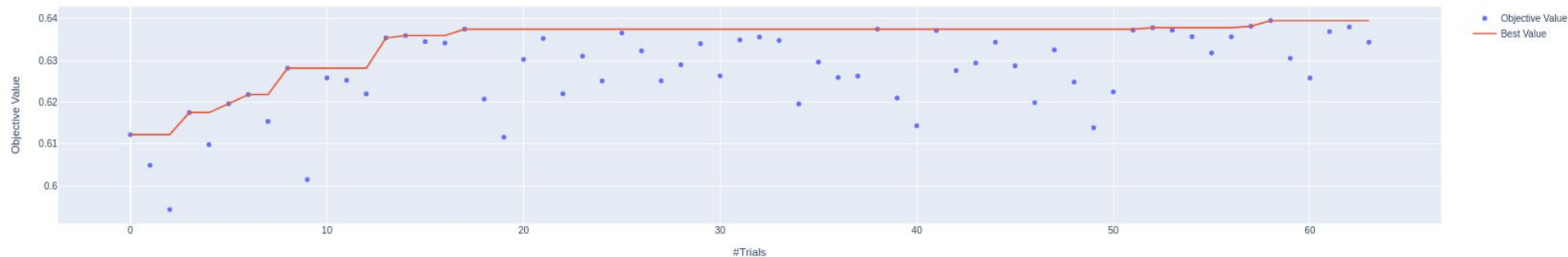
Hyperparameter Importances



Random Forest

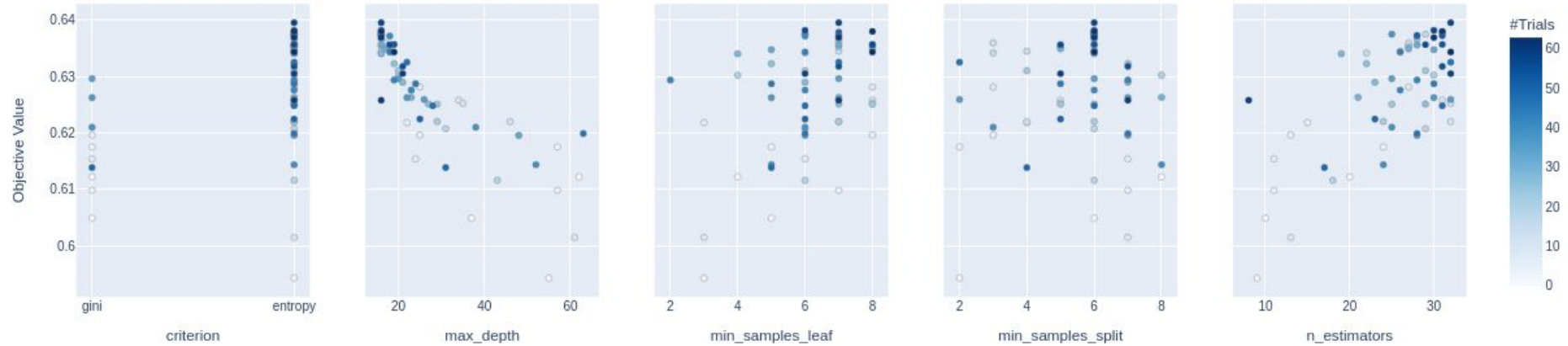


Optimization History Plot

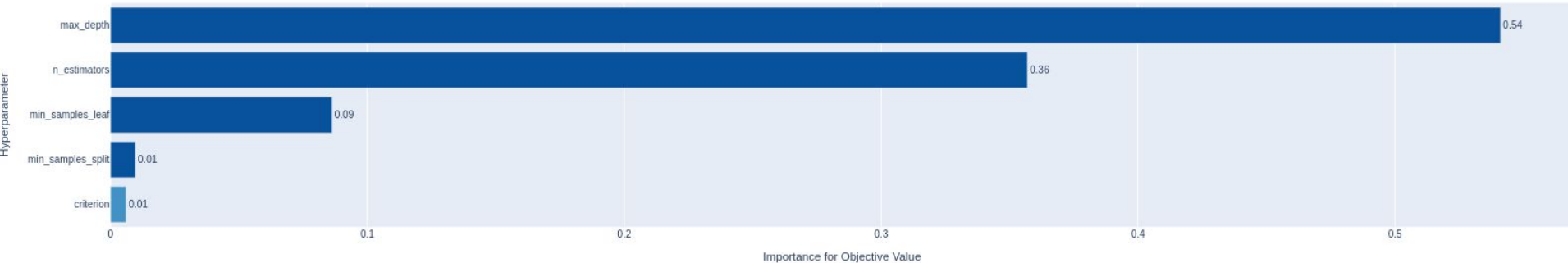


Random Forest

Slice Plot

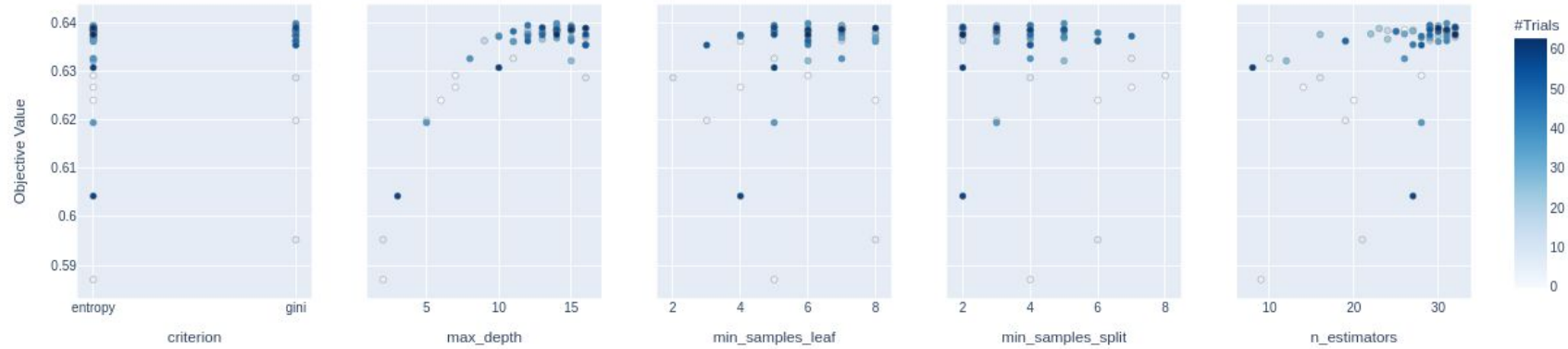


Hyperparameter Importances



Random Forest 2

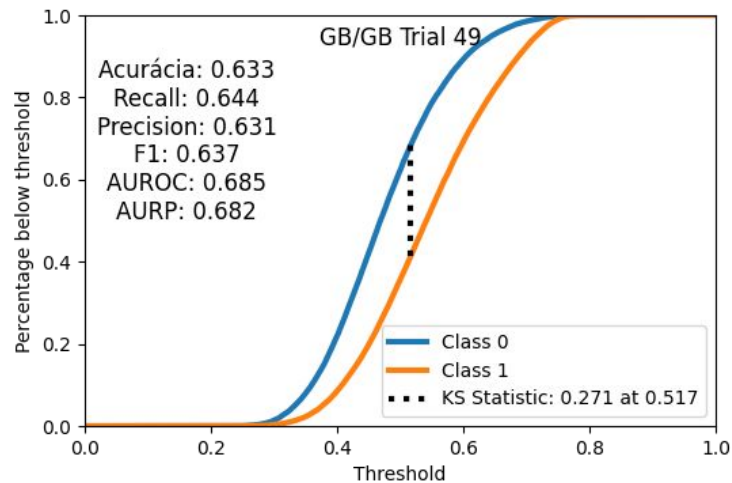
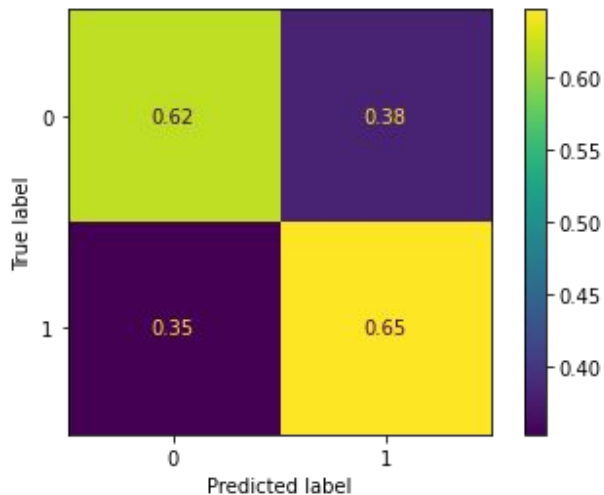
Slice Plot



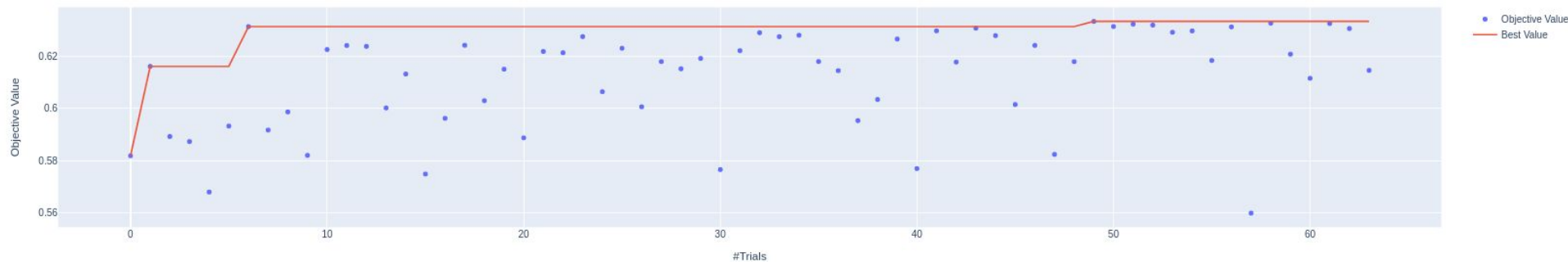
Hyperparameter Importances



Gradient Boosting

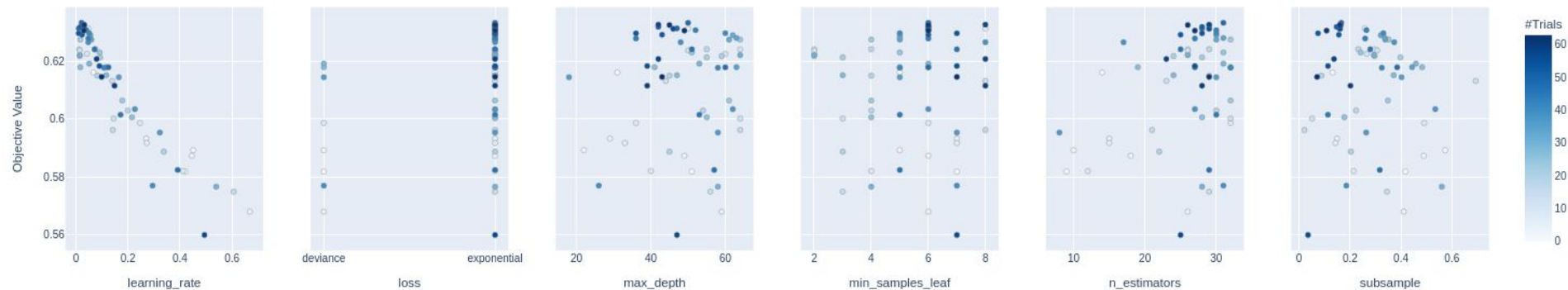


Optimization History Plot



Gradient Boosting

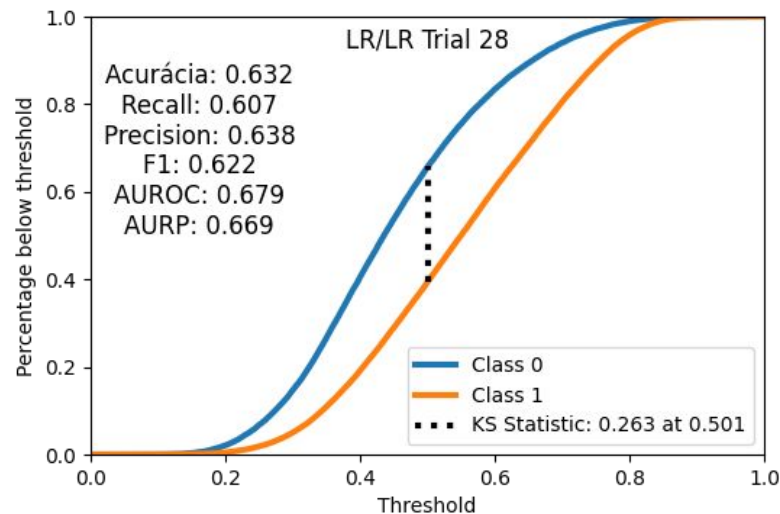
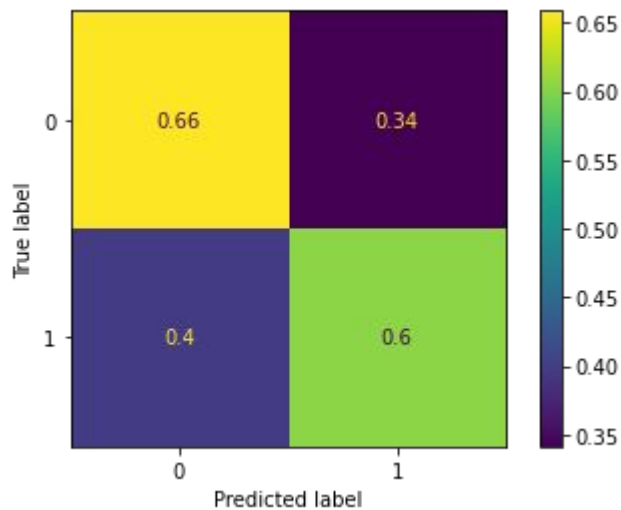
Slice Plot



Hyperparameter Importances

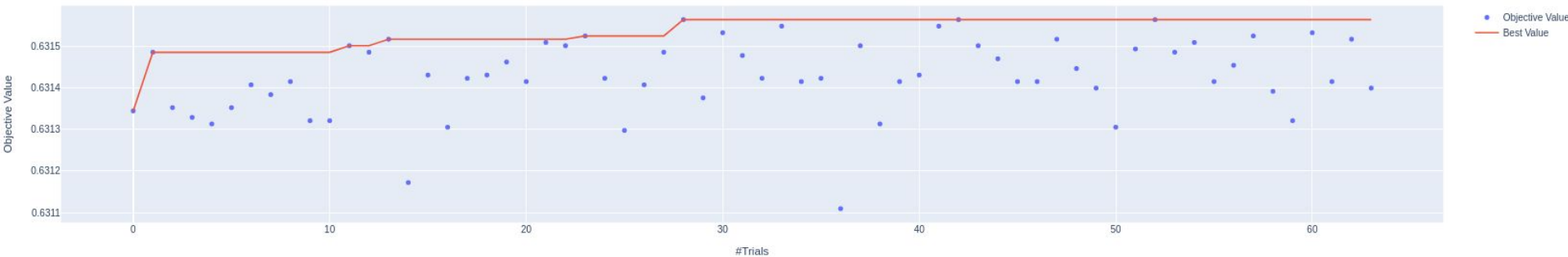


Regressão Logística

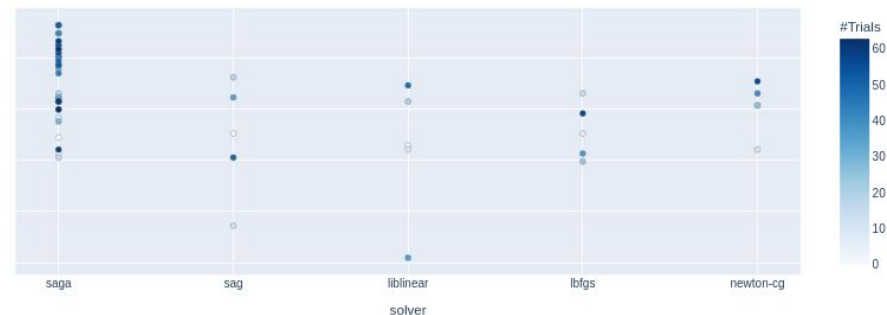
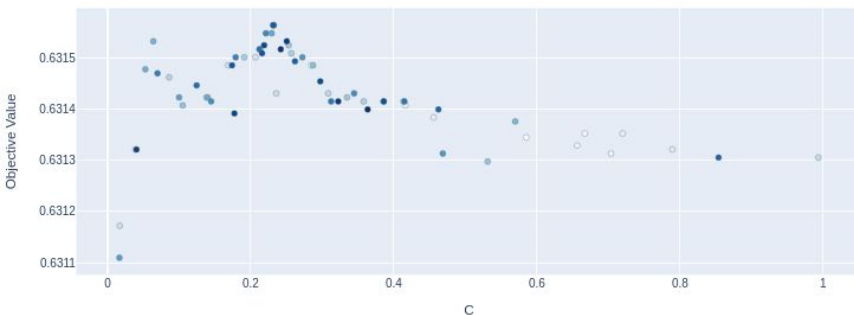


Regressão Logística

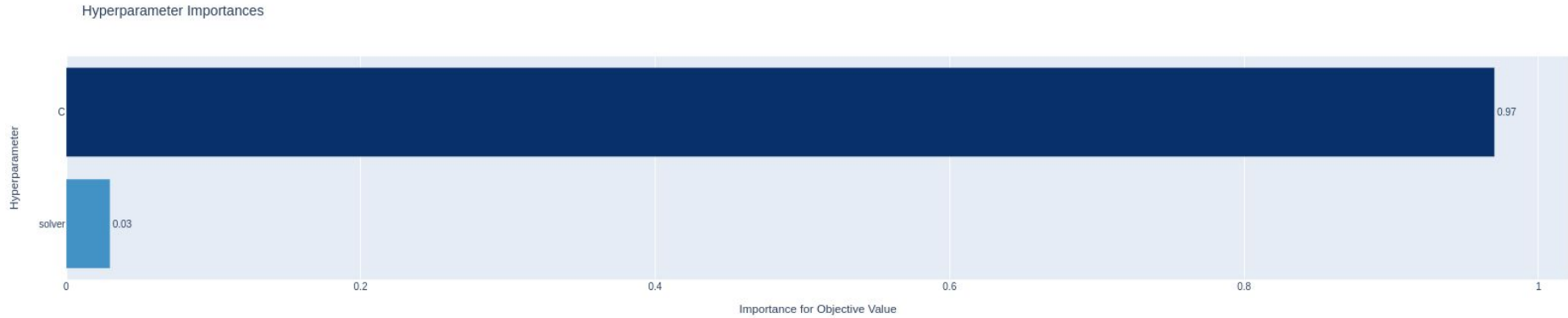
Optimization History Plot



Slice Plot



Regressão Logística



Ensemble

Utilizando as 3 melhores execuções de MLP e um Voting Classifier, obtivemos os seguintes resultados:

```
Validation score: 0.638142  
Iteration 41, loss = 0.62903024  
Validation score: 0.638808  
Validation score did not improve more than tol=0.000100 for 10 consecutive epochs. Stopping.  
[Voting] ..... (3 of 3) Processing mlp2, total= 21.0s
```

MLP Resumo

- Tempo Total: 4h7m
- Acurácia: 64.2077%
- KS: 0.285 em 0.507
- Matriz de confusão: 0/0: 68% | 1/1: 60%

Random Forest Resumo

- Tempo Total: 50m
- Acurácia: 63.9553%
- KS: 0.276 em 0.528
- Matriz de confusão: 0/0: 64% | 1/1: 63%

Gradient Boosting Resumo

- Tempo Total: 6h7m
- Acurácia: 63.3430%
- KS: 0.265 em 0.511
- Matriz de confusão: 0/0: 68% | 1/1: 60%

Regressão Logística Resumo

- Tempo Total: 22m
- Acurácia: 63.1399%
- KS: 0.262 em 0.501
- Matriz de confusão: 0/0: 66% | 1/1: 60%