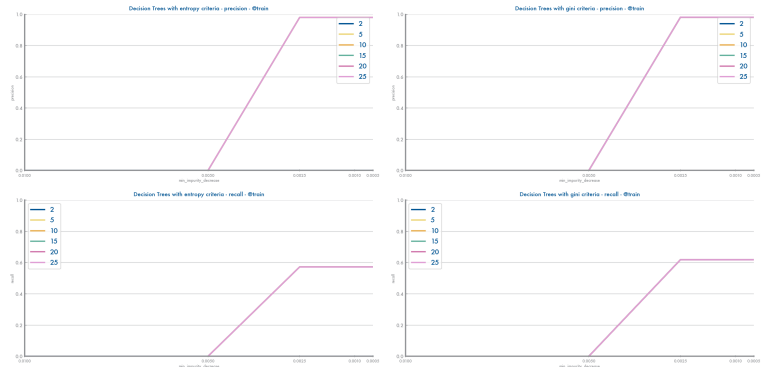


Dataset1:

Decision Trees study:

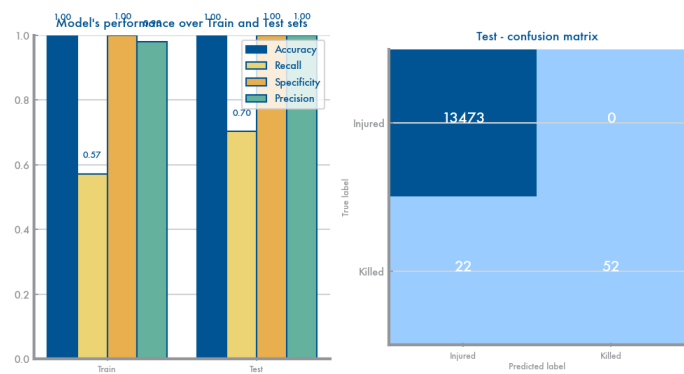
- Criteria: entropy + gini
- Max depth (pre-puning)
- Impurity decrease (post-pruning)



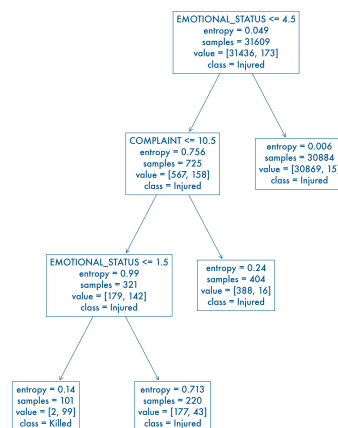
Best model evaluation ->

max depth: 5; min-impurity: 0.0025; criteria: entropy

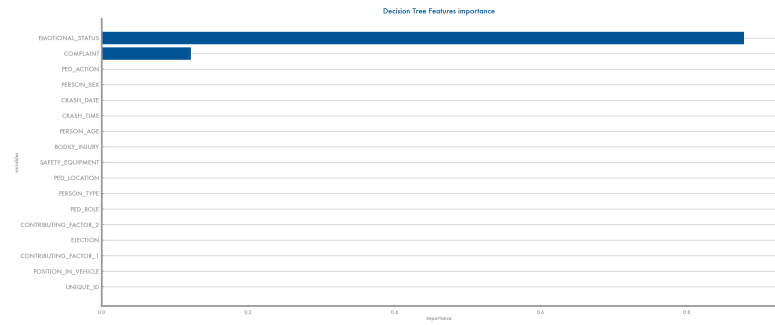
Confusion matrix



Best tree

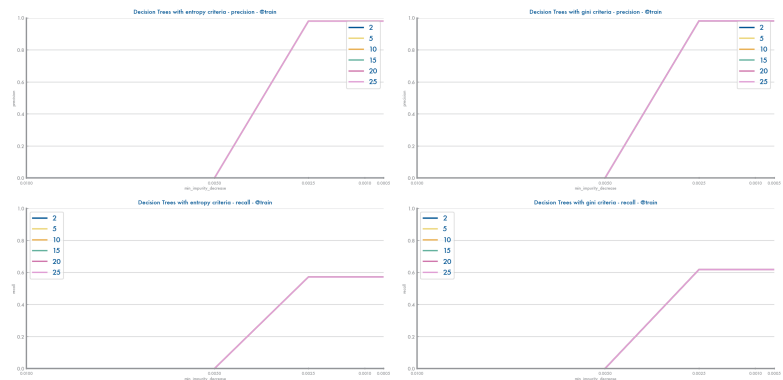


Feature Importance

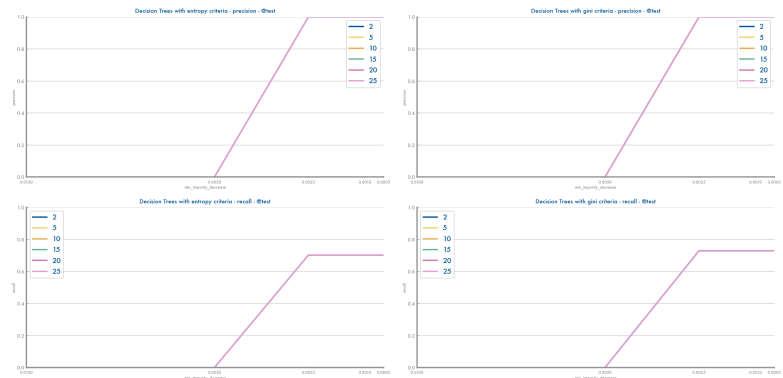


Overfitting study:

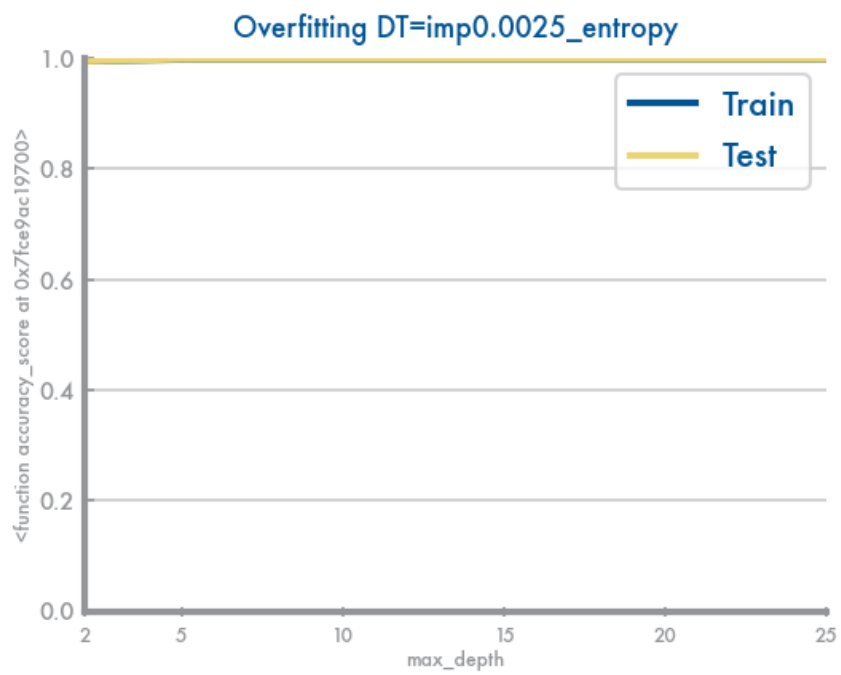
Decisions tree train



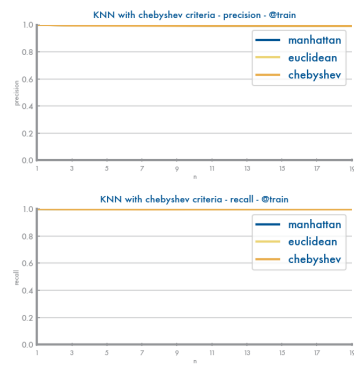
Decisions tree test



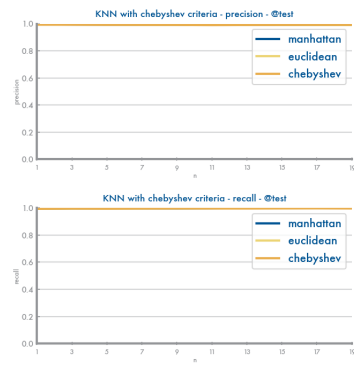
New Code



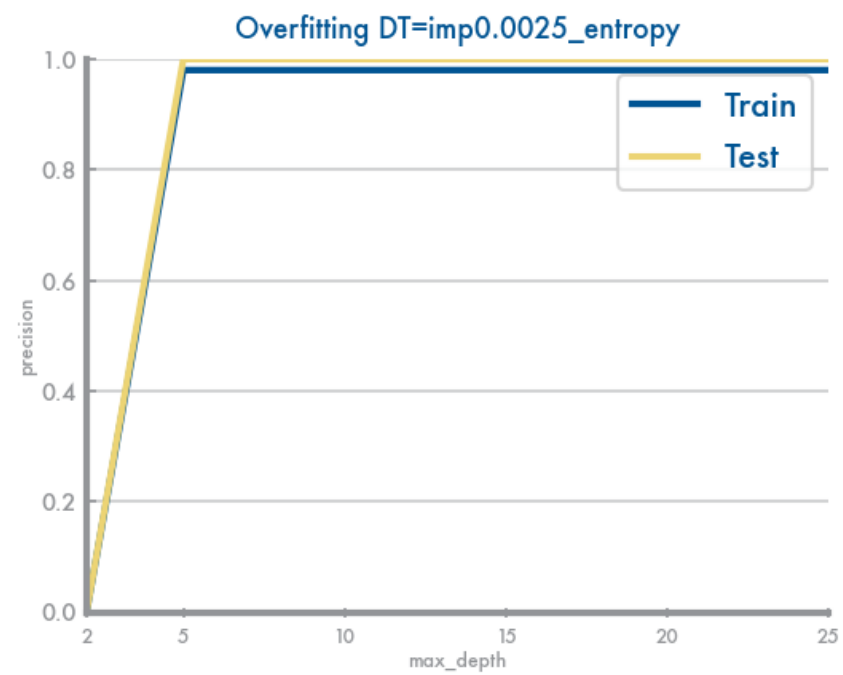
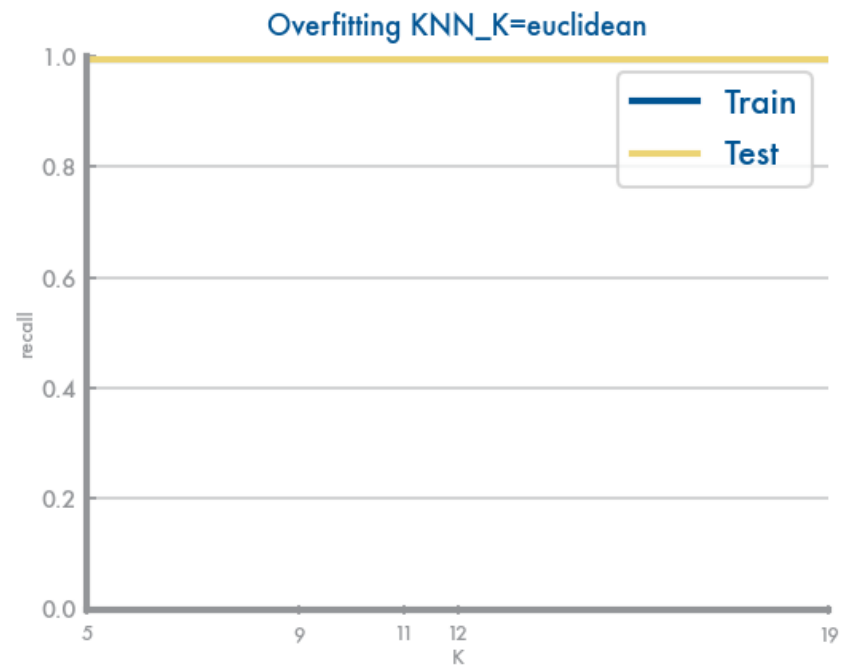
KNN train



KNN test



New Code



Dataset2:

Decision Trees study:

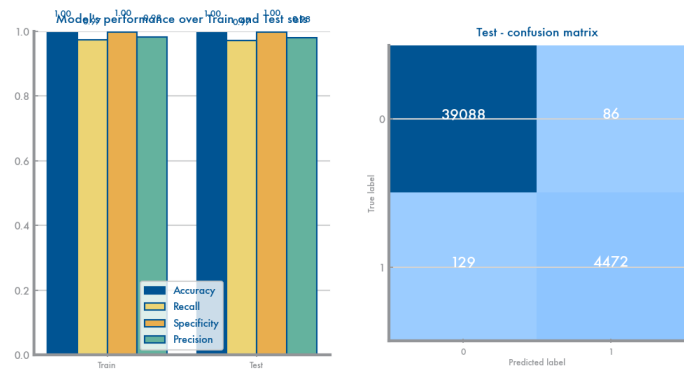
- Criteria: entropy + gini
- Max depth (pre-pruning)
- Impurity decrease (post-pruning)



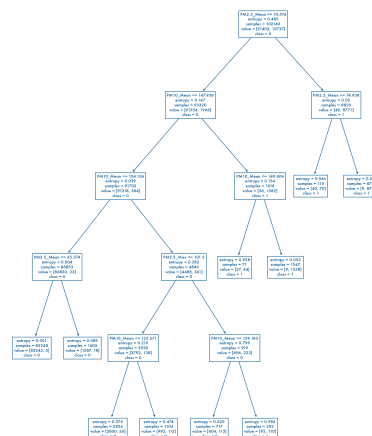
Best model evaluation ->

max depth: 5; min-impurity: 0.0025; criteria: entropy

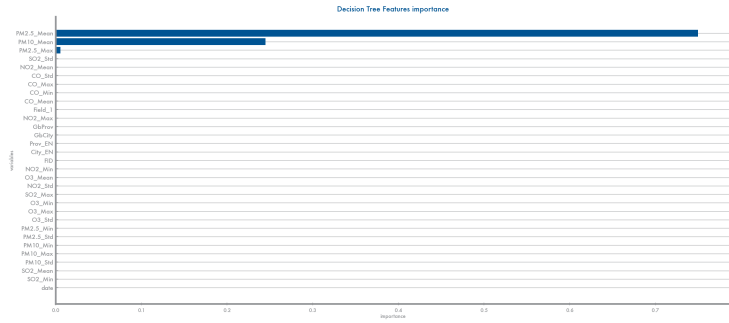
Confusion matrix



Best tree

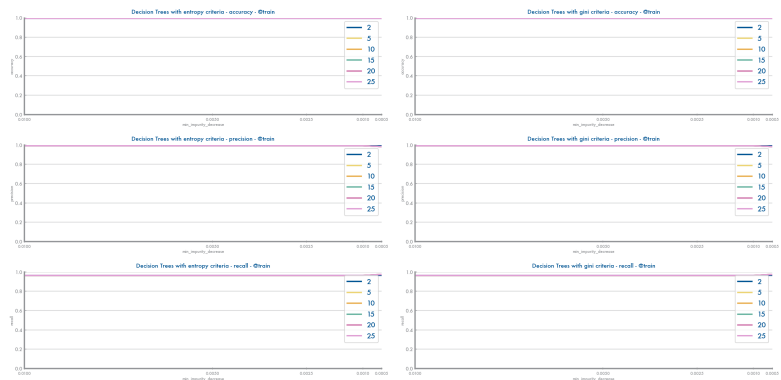


Feature Importance



Overfitting study:

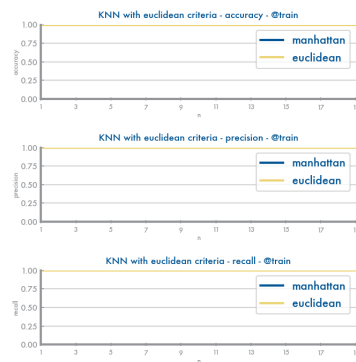
Decisions tree train



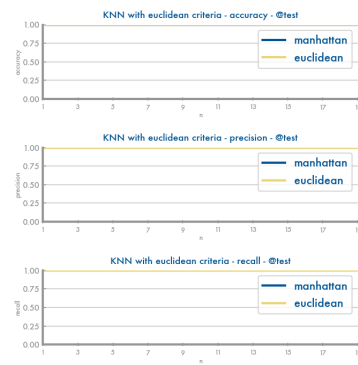
Decisions tree test



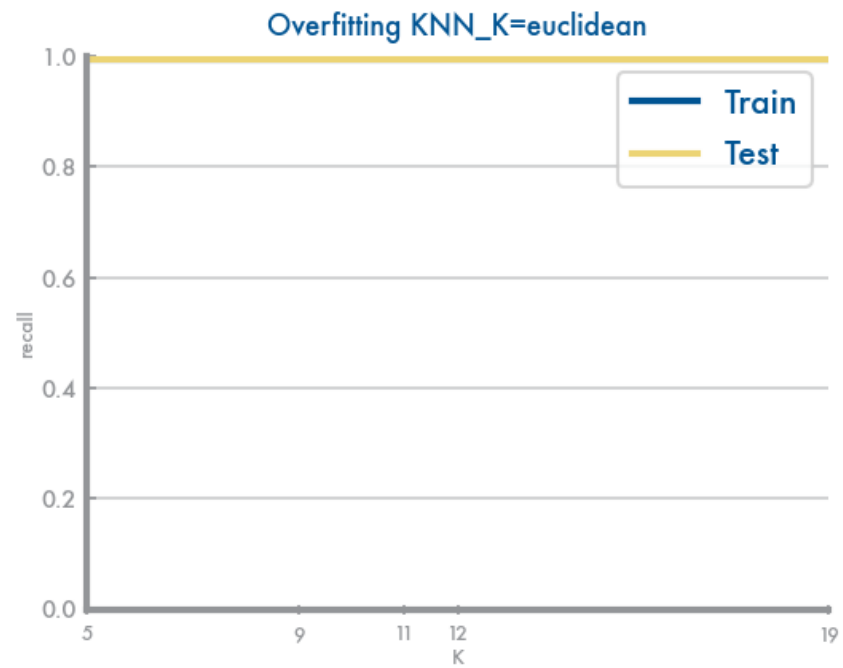
KNN train



KNN test

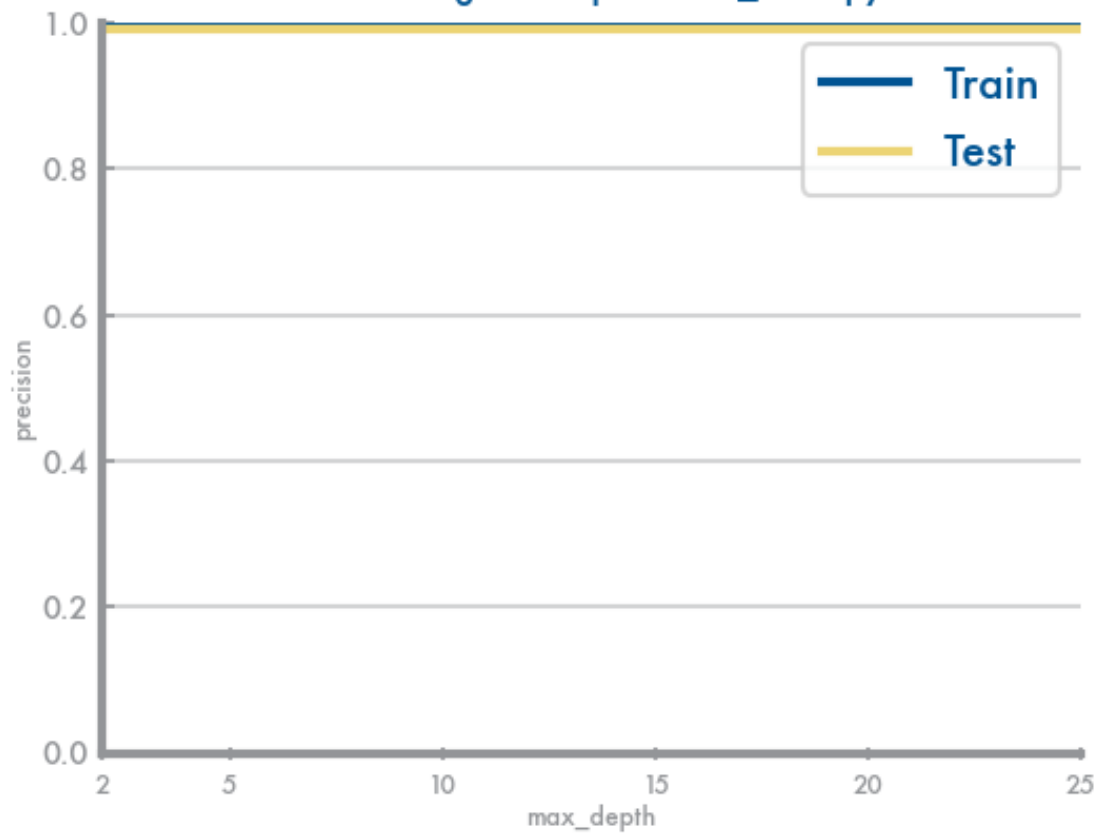


New Code



Para a árvore temos estas duas novas imagens:

Overfitting DT=imp0.0025_entropy



Overfitting DT=imp0.0025_entropy

