Projet Final Python

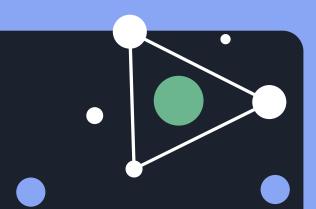


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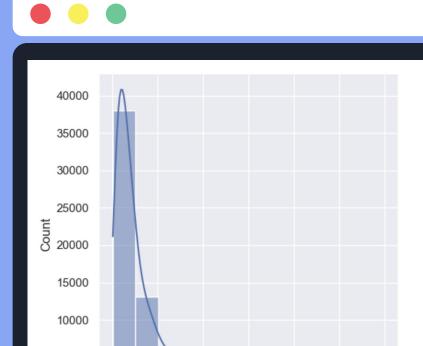
You can explain our choice

The ins and out of the problem?

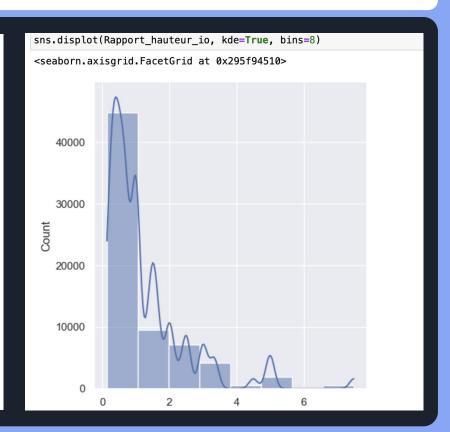
Data preprocessing

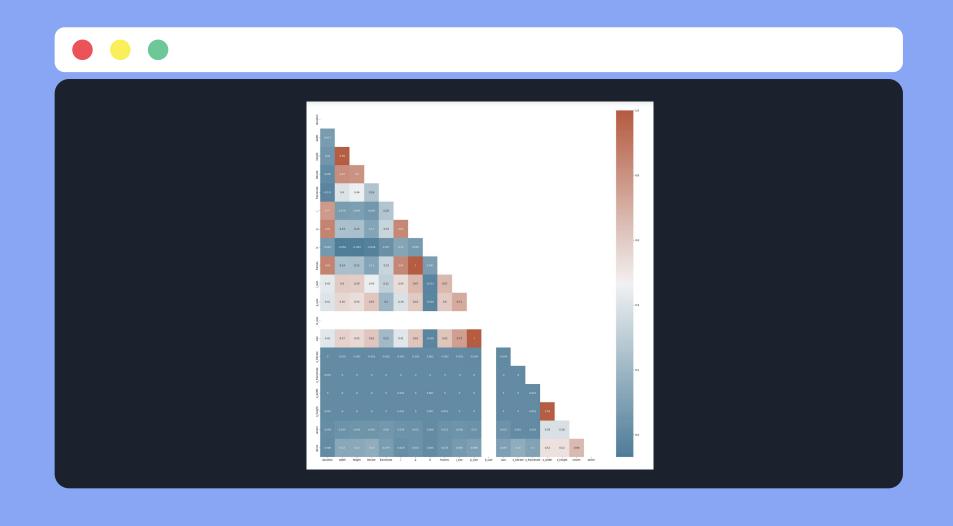
Data visualization

Modeling



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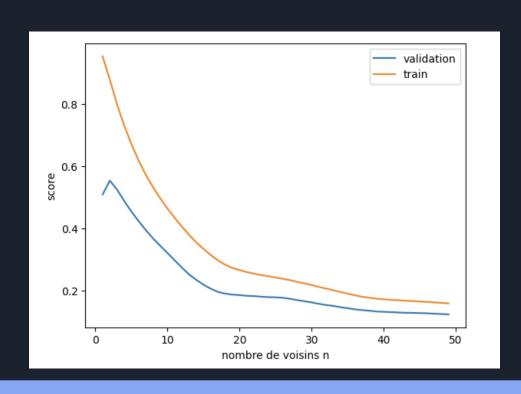
1) KN Regressor

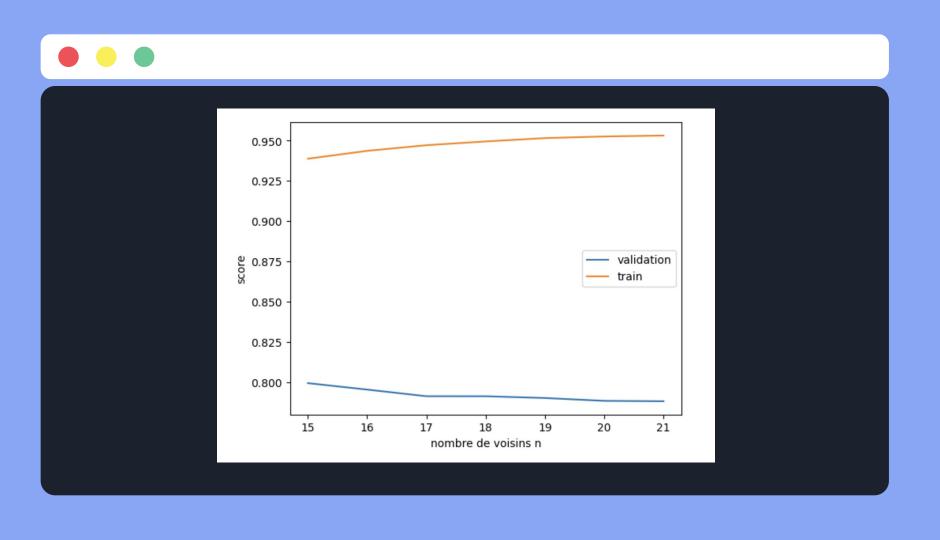
Train score: 0.819415162730038 Test score: 0.5784490223166803

```
from sklearn.neighbors import KNeighborsRegressor

neigh = KNeighborsRegressor(n_neighbors=3)
neigh.fit(X_train, y_train)
print('Train score: ',neigh.score(X_train,y_train))
print('Test score: ',neigh.score(X_test,y_test))
```







```
In [22]: from sklearn.model selection import GridSearchCV
          param_grid = { 'max_depth': np.arange(15,30), 'random_state': np.arange(0)
          grid = GridSearchCV(RandomForestRegressor(), param grid, cv=5)
          grid.fit(X_train, y_train)
Out[22]: GridSearchCV(cv=5, estimator=RandomForestRegressor(),
                       param_grid={'max_depth': array([15, 16, 17, 18, 19, 20, 21
          , 22, 23, 24, 25, 26, 27, 28, 29]),
                                     'random state': array([0, 1, 2])})
          In a Jupyter environment, please rerun this cell to show the HTML representation or trust
          the notebook.
          On GitHub, the HTML representation is unable to render, please try loading this page with
          nbviewer.org.
In [24]: grid.best_score
Out [24]: 0.7989467655287086
In [25]: grid.best_params_
Out[25]: {'max_depth': 15, 'random_state': 1}
```

