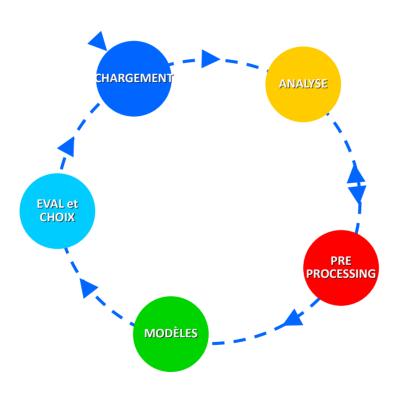






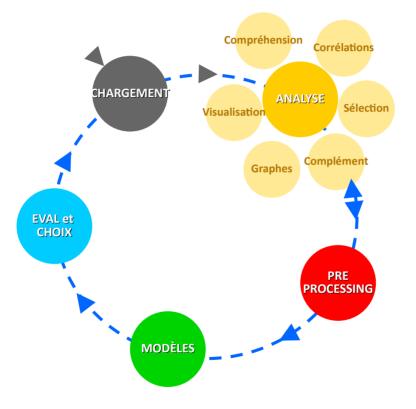
Process général





Sommaire



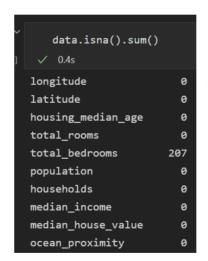






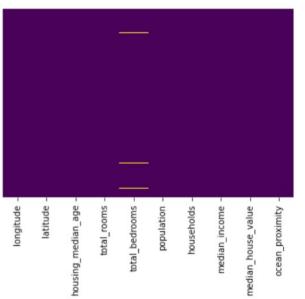
Describe







NaN





ANALYSE



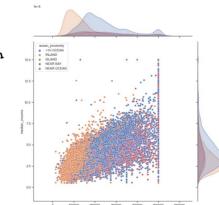
outliers

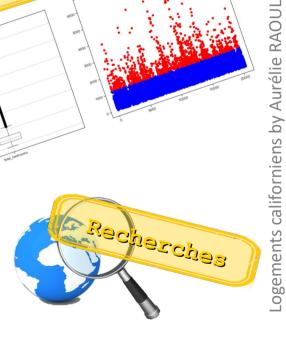
Analyse du fond Pairplot

Num var

Corrélations

- _ longitude _ latitude
- _ age
- chambres
- population





04/02/2022

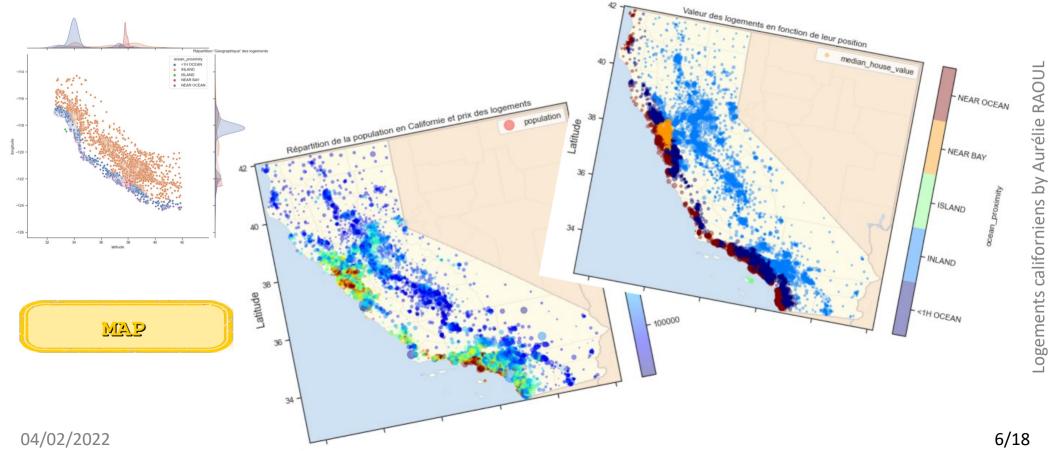
Hist.

5/18

ANALYSE

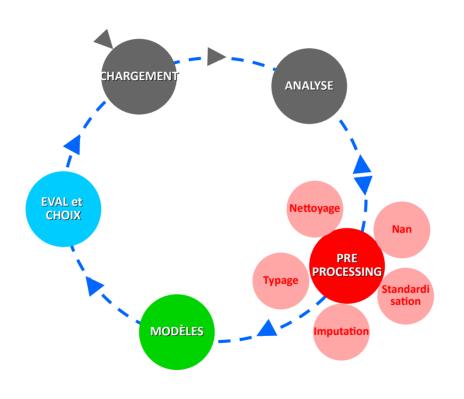






Sommaire



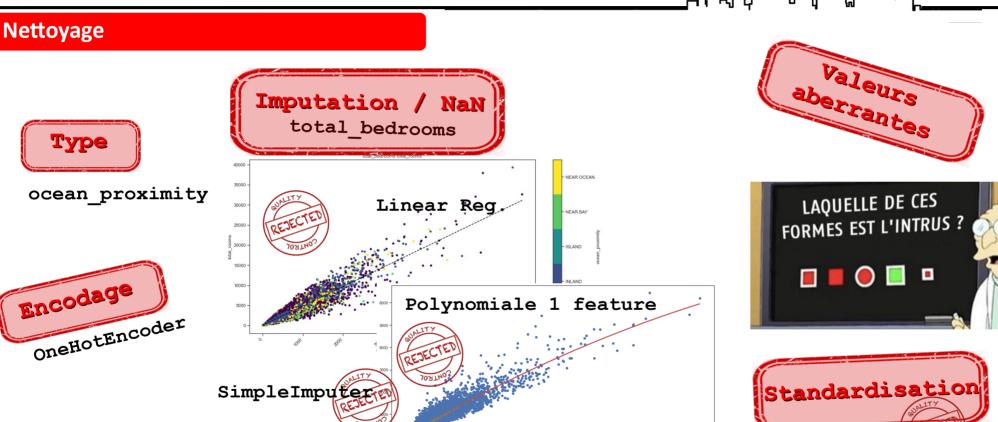




PRE-PROCESSING



+ households + population



Polynomiale total rooms

californiens by Aurélie RAOUL

-ogements

PRE-PROCESSING



Nettoyage



Type

ocean proximity

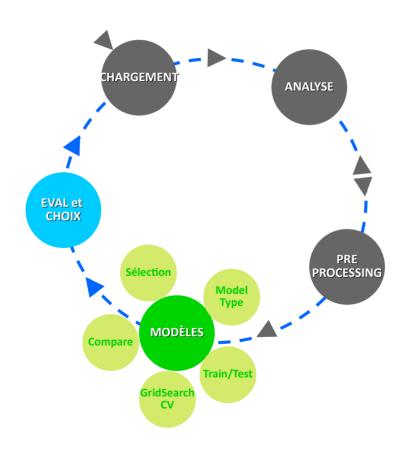














MODÈLES



Logements californiens by Aurélie RAOUL

11/18

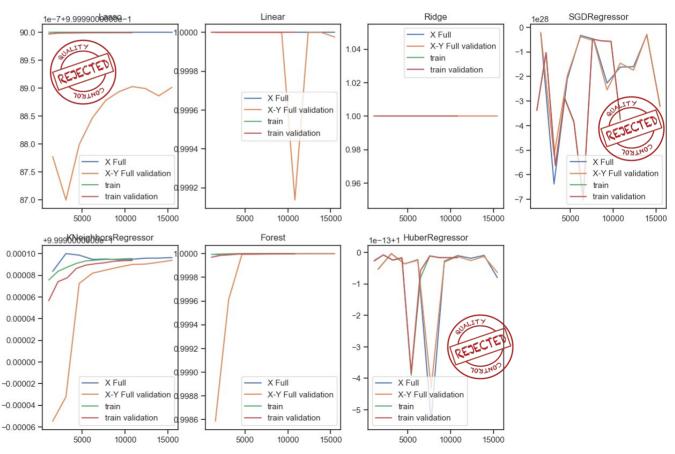


MODÈLES



learning_curve > x=train_sizes

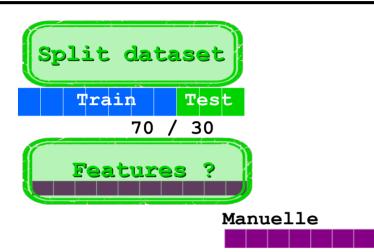


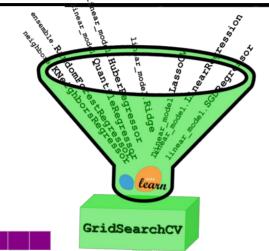




MODÈLES







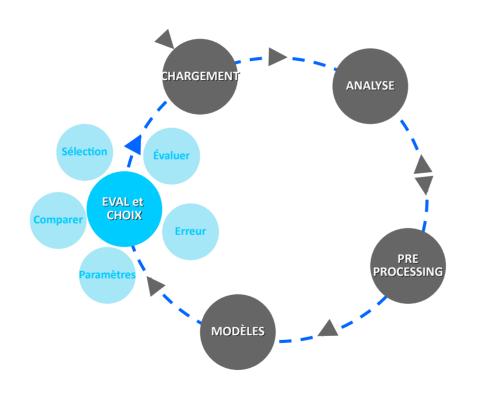


forniens by Aurélie RAOUL

Model	Score (Toutes colonnes)	Paramètres
RandomForestRegressor	0.9999996421039528	{'randomforestregressor_max_features': 'auto', 'randomforestregressor_n_estimators': 81}
Linear	1.0	{'linearregression_fit_intercept': True, 'linearregression_normalize': False, 'linearregression_positive': True}
Ridge	1.0	{'ridge_alpha': 1, 'ridge_fit_intercept': True, 'ridge_solver': 'auto'}
Lasso	0.9999989999649406	{'lassocv_alphas': None, 'lassocv_fit_intercept': True}
KNeighborsRegressor	0.9999946882516152	{'kneighborsregressor_n_neighbors': 7}
SGDRegressor	-2.4498384279180864e+26	{'sgdregressor_fit_intercept': True, 'sgdregressor_loss': 'squared_error', 'sgdregressor_penalty': 'l1'}
HuberRegressor	0.999999999999741	{'huberregressor_fit_intercept': False}
QuantileRegressor	Trop long à exécuter	

Sommaire







ÉVALUATION ET CHOIX





Métriques

Visualisation de la cible

Erreur

Modèle	R2	MAE	MSE	RMSE	Media AE
Lasso	1.0	91.296	13289.368	115.28	76.549
Linear	1.0,	0.0	0.0	0.0	0.0
Ridge	1.0,	0.0	0.0	0.0	0.0
SGDRegressor	-2.44e+26	1.59e+18	3.2555e+36	1.8031e+18	1.405e+18
KNeighborsRegressor	1.0	125.487	70587.303	265.683	71.429
Forest	1.0	21.317	4756.045	68.964	6.173
HuberRegressor	1.0	0.015	0.0	0.019	0.014

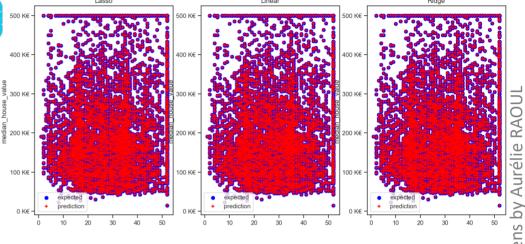


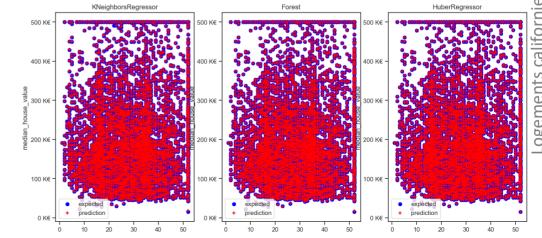
MAE = Mean Absolute Error : l'importance d'une erreur est linéaire avec son amplitude. Si le dataset contient des outliers

MSE = Mean Squared Error : vous accordez une grande importance aux grandes erreurs

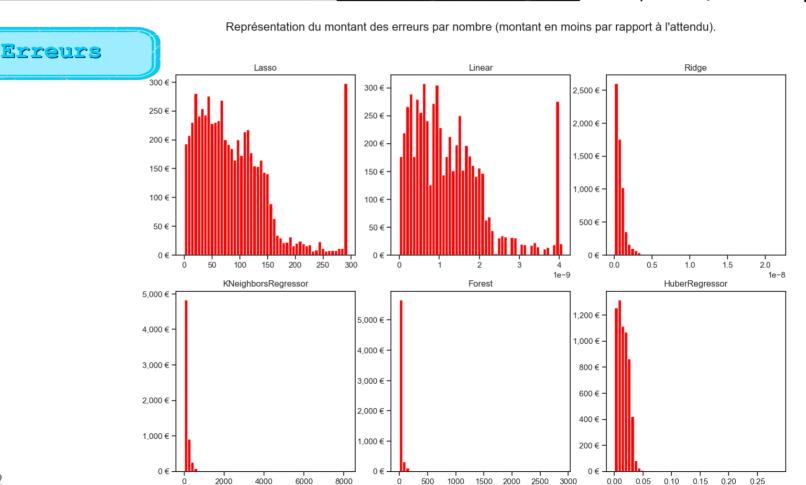
RMSE = Root Mean Squared Error : Remise à l'échelle, donc racine carré de MSE

Media AE = Median Absolute Error : très peu sensible aux outliers



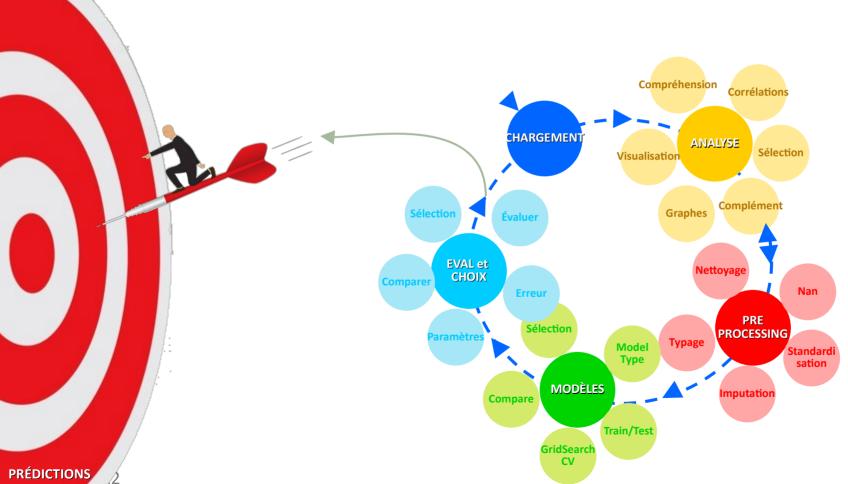






Synthèse





Discussion



