Cas kaggle

Martí Caixal Joaniquet - 1563587

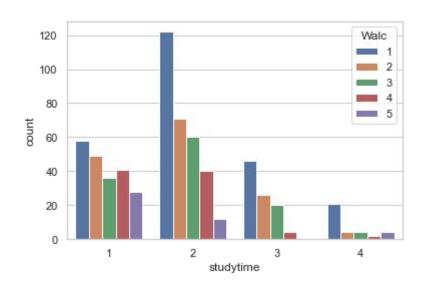


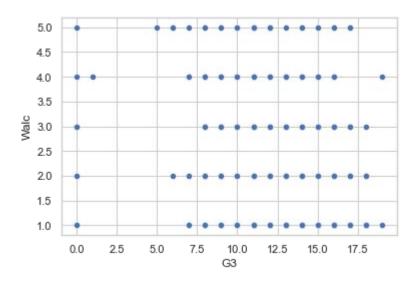
Introducció

Efecte del consum d'alcohol als resultats acadèmics:

- o 649 mostres
- o 33 atributs
 - > 30 → acosneguits per enquesta
 - \triangleright 2 \rightarrow notes parcials
 - ✓ 1 \rightarrow Nota final (Objectiu)

Anàlisi de dades







Preprocessing

- ✓ Label Encoder
- ✓ Tractar Outliers
- X Escalar dades

Models

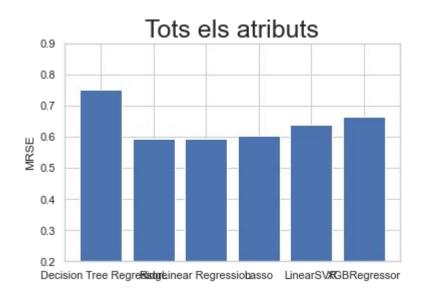
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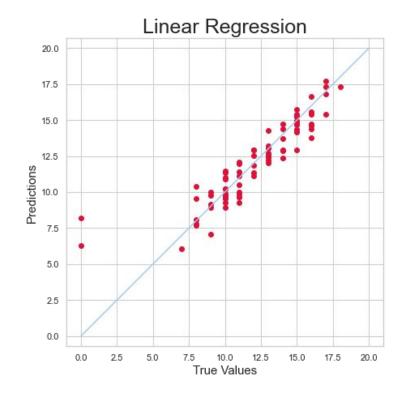
- Decision Tree Regressor
- Linear Regression
- Ridge
 - Lasso
- LinearSVR
- XGBRegressor

Mètodes avançats

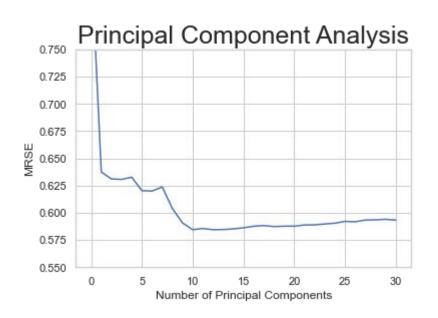
- Hyperparameter Search
 - (Bayesian Optimization)
- Principal Component Analysis
- Boosting

Resultats

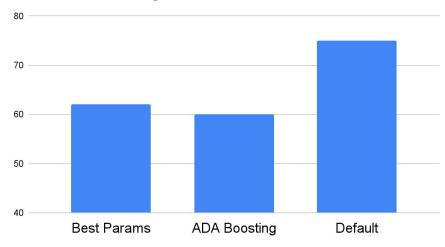




Millores

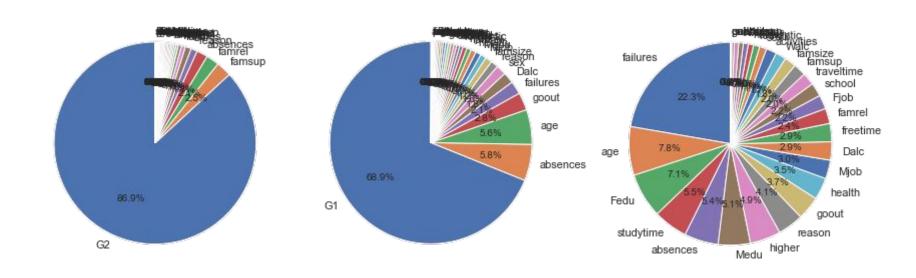


Decision Tree Regressor

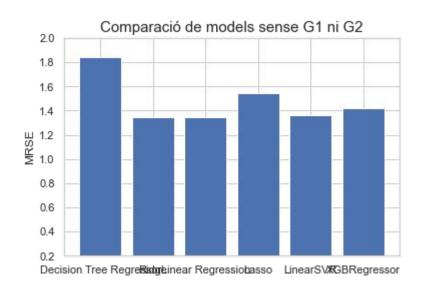


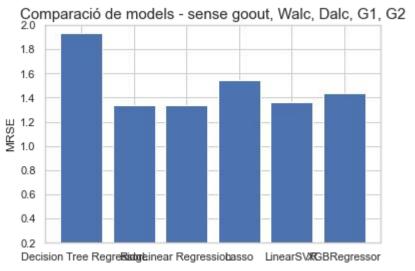
Problemes

Imporància d'atributs \rightarrow G1 i G2 (notes parcials)



Altres resultats





Conclusions

- Bones prediccions en general
- Males prediccions sense notes parcials
- Alcohol no afecta
- o Poques dades i molt semblants entre elles