**Regression**

|  |  | R2 | MAE |
| --- | --- | --- | --- |
| LINEAR | One hot | 0.011572112482555186 | MSE: 473.3367580187 |
| Ridge | Label | 0.001189986817017541 | 18.62865573032356 |
| Target | 0.012997215500692105 | 18.44149743597128 |
| Frequency | 0.001284586861671655 | 18.625447372984805 |
| Lasso | Label | 0.0011899285242826796 | 18.628678381592252 |
| Target | 0.0129960379887748 | 18.441615530836565 |
| Frequency | 0.0012149099159896037 | 18.627623279480193 |
| enet | Label | 0.001189947178342643 | 18.62867069492144 |
| Target | 0.012996137663635832 | 18.441604171722208 |
| Frequency | 0.0010672802680802285 | 18.63407933118666 |
| Gradient Boosting | Label | 0.015123083010862515 | 18.433028277447974 |
| Target | 0.016730360861012872 | 18.402270781874922 |
| Frequency | 0.008937425495715523 | 18.507071540208162 |
| Random Forest | Label | 0.012336007504987756 | 18.411957455284842 |
| Target | 0.012496432373384936 MAE: | 18.41017037569183 |
| Frequency | 0.012313031656951967 | 18.412178722217615 |

**Naive Bayes Classification**

Accuracy: 0.3974236598660089

Precision: 0.3913068240277951

Recall: 0.3974236598660089

F1 Score: 0.263097776456758