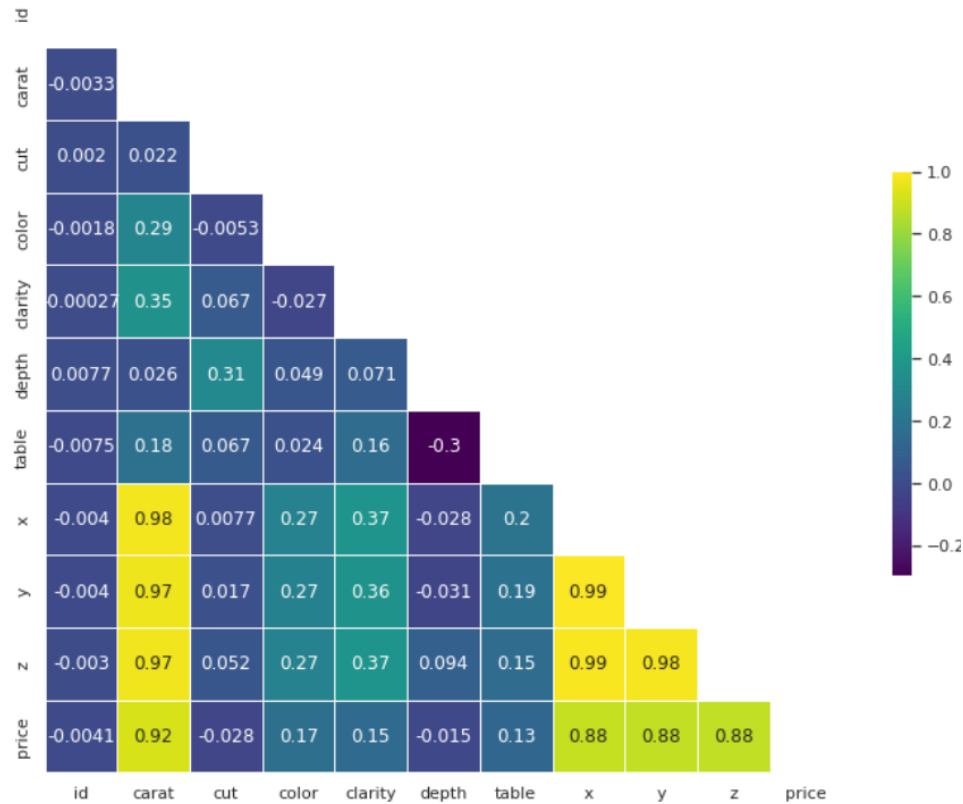


Limpieza

- Combatimos colinealidad
- Convertimos las categóricas en cuantitativas



| | id | carat | cut | color | clarity | depth | table | x | y | z | price |
|---|----|-------|-------|-------|---------|-------|-------|------|------|------|-------|
| 0 | 0 | 1.14 | Ideal | G | VVS2 | 61.0 | 56.0 | 6.74 | 6.76 | 4.12 | 9013 |
| 1 | 1 | 0.76 | Ideal | H | VS2 | 62.7 | 57.0 | 5.86 | 5.82 | 3.66 | 2692 |

Predecimos

- Elegimos modelo
- Aplicamos modelo

```
for name, model in models.items():  
    print("ENTRENANDO: ", name)  
    model.fit(X_train, y_train)
```

```
ENTRENANDO: linnear  
ENTRENANDO: Tree  
ENTRENANDO: Kneighbors  
ENTRENANDO: grad  
ENTRENANDO: forest
```

```
for name, model in models.items():  
    y_pred = model.predict(X_test)  
    print(f'{model} - RMSE - ', np.sqrt(metrics.mean_squared_error(y_test, y_pred)))
```

```
Ridge() - RMSE - 1247.0281099340266  
DecisionTreeRegressor() - RMSE - 734.842036912687  
KNeighborsRegressor() - RMSE - 1935.5656092074628  
GradientBoostingRegressor() - RMSE - 635.2149743948081  
RandomForestRegressor() - RMSE - 562.1253276152011
```

```
y_pred = forest.predict(test)
```

```
test["y_pred"] = y_pred #dejamos la predicción en los datos
```