Saída: Leitura e Info do Dataset

SEÇÃO 1: Importando bibliotecas e lendo o CSV Carregando arquivo CSV...

```
===== Primeiras linhas do dataset =====
                                                                        title console
                                                                                                      publisher
                                                                                                                               pal sales other sales release date
                                                                                         genre
                                                                                                                ... jp sales
  /games/boxart/full 6510540AmericaFrontccc.jpg
                                                           Grand Theft Auto V
                                                                                   PS3
                                                                                        Action
                                                                                                Rockstar Games
                                                                                                                         0.99
                                                                                                                                    9.85
1
  /games/boxart/full 5563178AmericaFrontccc.jpg
                                                           Grand Theft Auto V
                                                                                   PS4
                                                                                        Action
                                                                                                Rockstar Games
                                                                                                                         0.60
                                                                                                                                    9.71
2
                     /games/boxart/827563ccc.jpg
                                                  Grand Theft Auto: Vice City
                                                                                   PS2
                                                                                        Action
                                                                                                Rockstar Games
                                                                                                                         0.47
                                                                                                                                    5.49
3
  /games/boxart/full 9218923AmericaFrontccc.jpg
                                                           Grand Theft Auto V
                                                                                 X360
                                                                                                Rockstar Games
                                                                                                                         0.06
                                                                                                                                    5.33
                                                                                        Action
4 /games/boxart/full 4990510AmericaFrontccc.jpg
                                                    Call of Duty: Black Ops 3
                                                                                  PS4
                                                                                       Shooter
                                                                                                                         0.41
                                                                                                                                    6.05
                                                                                                     Activision
[5 rows x 14 columns]
==== Informações gerais =====
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 64016 entries, 0 to 64015
Data columns (total 14 columns):
    Column
                   Non-Null Count Dtype
 0
    img
                   64016 non-null object
1
     title
                   64016 non-null object
     console
                   64016 non-null object
 3
                   64016 non-null object
    genre
     publisher
                   64016 non-null object
 5
    developer
                   63999 non-null object
 6
    critic score
                  6678 non-null
                                  float64
     total sales
                   18922 non-null float64
    na sales
 8
                   12637 non-null float64
 9
                   6726 non-null
    jp sales
                                   float64
    pal sales
                   12824 non-null float64
11
    other sales
                  15128 non-null float64
    release date 56965 non-null object
13 last update
                 17879 non-null object
dtypes: float64(6), object(8)
memory usage: 6.8+ MB
None
===== Quantidade de linhas e colunas =====
(64016, 14)
===== Verificando valores nulos =====
imq
title
                    0
console
                    0
                    0
genre
                    0
publisher
                   17
developer
                57338
critic score
total sales
                45094
```

last update

2018-01-03

2018-01-14

NaN

NaN

NaN

3.12

3.02

1.78

1.42

2.44

2013-09-17

2014-11-18

2002-10-28

2013-09-17

2015-11-06

Gerando histograma de 'critic score'...

51379 57290

51192

48888

7051 46137

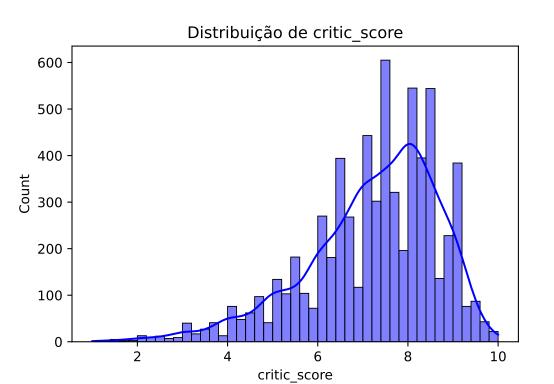
na sales

jp sales pal sales

other sales

release date

last update dtype: int64



Saída: Region Preference

SEÇÃO 3: Criando a coluna 'region_preference'

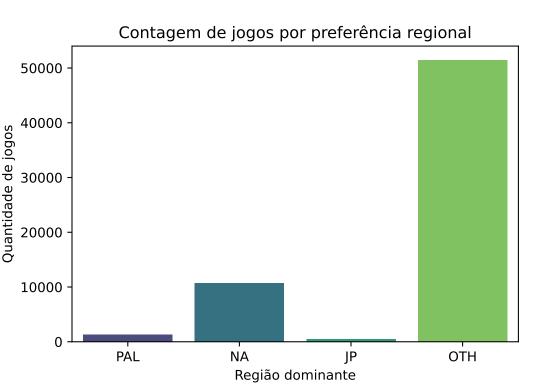
==== Distribuição da classe (region_preference) =====

region_preference OTH 51437

NA 10755 PAL 1329

JP 495

Name: count, dtype: int64



Saída: Pré-processamento

```
SEÇÃO 4: Pré-processamento
==== Formato dos dados =====
X_train: (847, 9), y_train: (847,)
X test : (363, 9), y test : (363,)
Classes no treino:
region_preference
NA 
       550
PAL
       182
JP
       111
0TH
Name: count, dtype: int64
Classes no teste:
region preference
       219
NA
PAL
        87
```

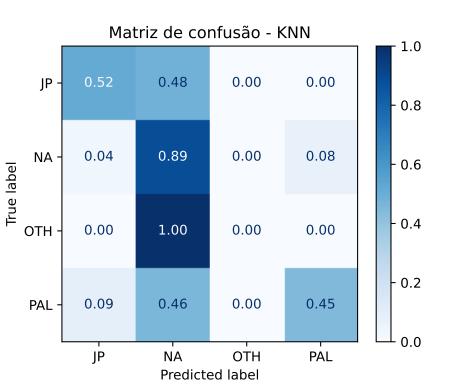
JΡ

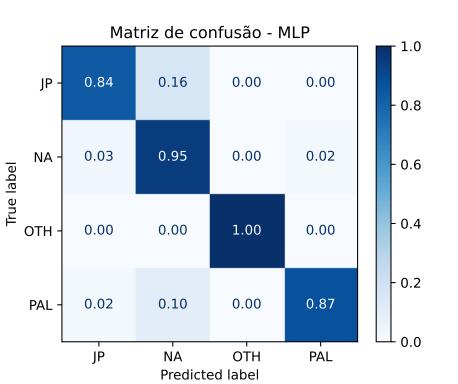
0TH

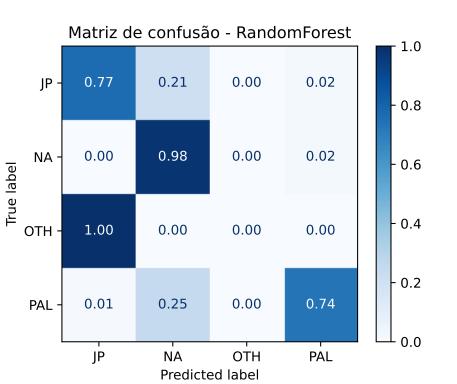
56

1

Name: count, dtype: int64







Saída: Resultados Finais

==== Comparativo final =====

Algoritmo Acuracia Precisao Recall 0.721763 0.721763 0.713054 0 KNN MLP 1 0.914601 0.915172 0.914601 2 RandomForest 0.884298 0.887134 0.884298

=== KNN ===

Acurácia : 0.7218 Precisão : 0.7131 Recall : 0.7218

=== MLP ===

Acurácia : 0.9146 Precisão : 0.9152 Recall : 0.9146

=== RandomForest ===

Acurácia : 0.8843 Precisão : 0.8871 Recall : 0.8843

