```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model selection import train test split
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LinearRegression
from sklearn.ensemble import RandomForestClassifier
from sklearn.cluster import KMeans
from google.colab import drive
drive.mount('/content/drive')

→ Mounted at /content/drive

# Provide the full path to your dataset
df = pd.read_csv("/content/netflix_titles.csv", encoding='latin-1') # Changed the encoding to 'latin-1'")
df.info()
<class 'pandas.core.frame.DataFrame'>
     RangeIndex: 8809 entries, 0 to 8808
     Data columns (total 26 columns):
     # Column
                      Non-Null Count
                                      Dtype
                       -----
     0
         show_id
                      8809 non-null
                                      object
                       8809 non-null
                                      object
          type
                      8809 non-null
         title
                                      object
     3
         director
                       6175 non-null
                                      object
      4
                       7984 non-null
         cast
                                      object
         country
                       7978 non-null
                                      object
         date_added 8799 non-null
                                      object
         release_year 8809 non-null
                                      int64
                       8805 non-null
         rating
                                      object
                       8806 non-null
         duration
                                      object
                                      object
      10 listed_in
                       8809 non-null
      11 description
                      8809 non-null
                                      object
      12 Unnamed: 12
                       0 non-null
                                      float64
      13 Unnamed: 13
                                      float64
                      0 non-null
      14 Unnamed: 14
                       0 non-null
                                      float64
      15 Unnamed: 15
                       0 non-null
                                      float64
      16 Unnamed: 16
                                      float64
                      0 non-null
      17 Unnamed: 17
                       0 non-null
                                      float64
      18 Unnamed: 18
                       0 non-null
                                      float64
      19 Unnamed: 19
                                      float64
                      0 non-null
      20 Unnamed: 20 0 non-null
                                      float64
      21 Unnamed: 21
                       0 non-null
                                      float64
      22 Unnamed: 22
                      0 non-null
                                      float64
      23 Unnamed: 23
                                      float64
                      0 non-null
      24 Unnamed: 24
                      0 non-null
                                      float64
     25 Unnamed: 25
                      0 non-null
                                      float64
     dtypes: float64(14), int64(1), object(11)
     memory usage: 1.7+ MB
df.describe()
```

https://colab.research.google.com/drive/1dEswZVkYN\_xngLb79SHzJFS8Kvo\_LKie#scrollTo=n6HljQnNpAIM&printMode=true



7	release_year	Unnamed: 12	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19	Unnamed: 20	Unnamed: 21	Unnamed: 22	Unname
count	8809.000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
mean	2014.181292	NaN	Na										
std	8.818932	NaN	Na										
min	1925.000000	NaN	Na										
25%	2013.000000	NaN	Na										
50%	2017.000000	NaN	Na										
75%	2019.000000	NaN	Na										
max	2024.000000	NaN	Na										

import pandas as pd
import seaborn as sns

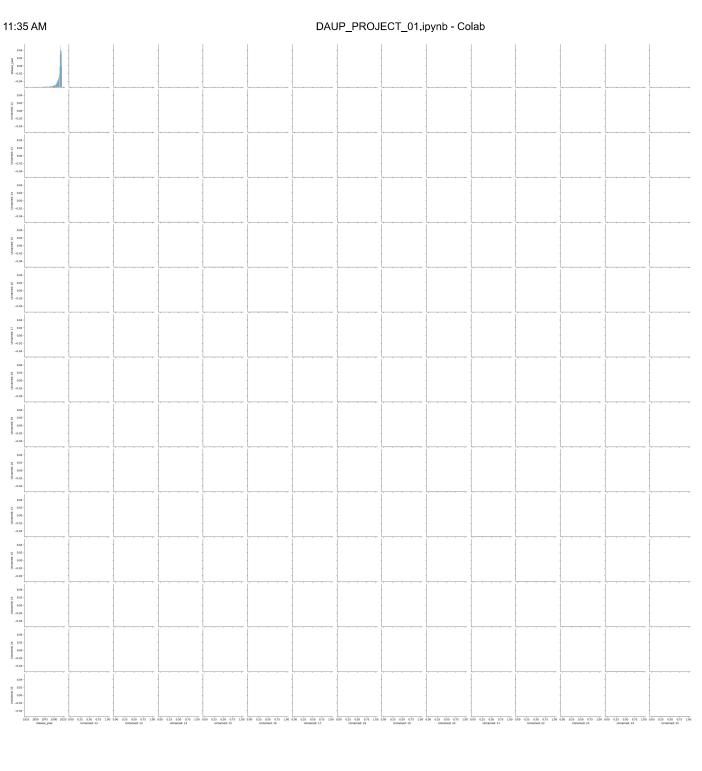
import matplotlib.pyplot as plt

<sup>#</sup> Assuming 'df' is your dataframe

<sup>#</sup> Select only numerical columns for scatter plots
numerical\_cols = df.select\_dtypes(include=['number']).columns

<sup>#</sup> Create scatter plots for all pairs of numerical features
sns.pairplot(df[numerical\_cols])
plt.show()





```
import pandas as pd
import matplotlib.pyplot as plt

# Assuming 'df' is your dataframe

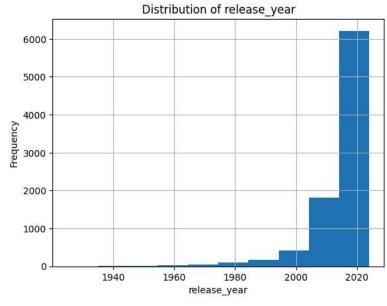
# Specify the columns you want to create histograms for
selected_columns = ['release_year', 'rating', 'duration']

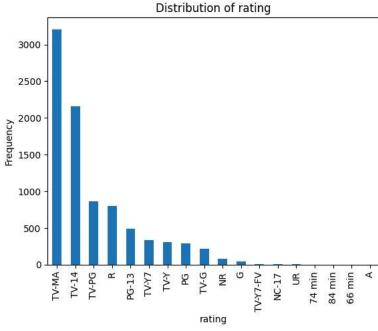
for col in selected_columns:
    plt.figure() # Create a new figure for each histogram

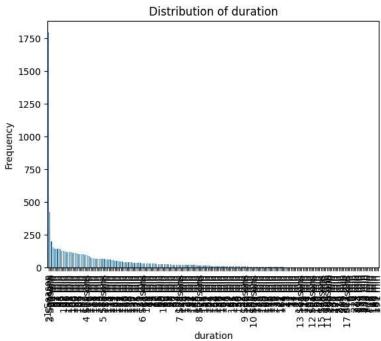
# Check if the column is numerical
    if pd.api.types.is_numeric_dtype(df[col]):
        df[col].hist() # Generate histogram for numerical data
    else:
        df[col].value_counts().plot(kind='bar') # Generate bar plot for categorical data

plt.title(f'Distribution of {col}') # Set the title
    plt.xlabel(col) # Set the x-axis label
    plt.ylabel('Frequency')
```





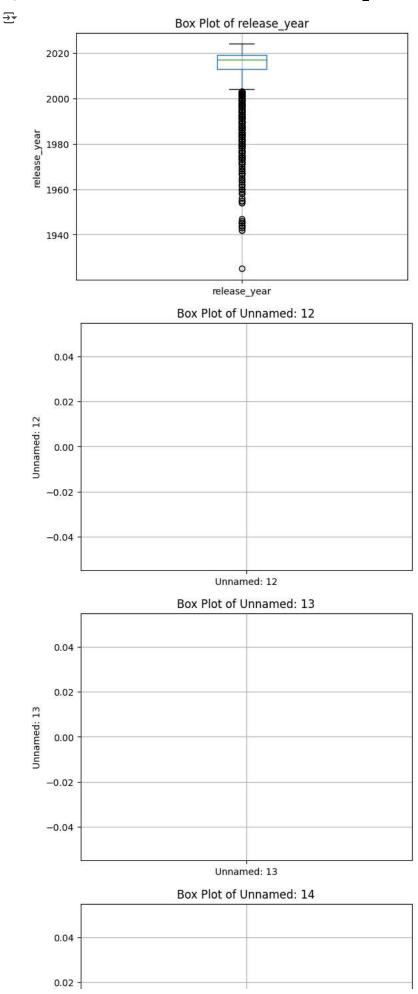


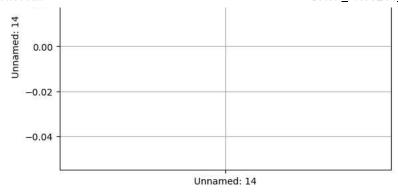


```
import pandas as pd
import matplotlib.pyplot as plt

# Assuming 'df' is your dataframe

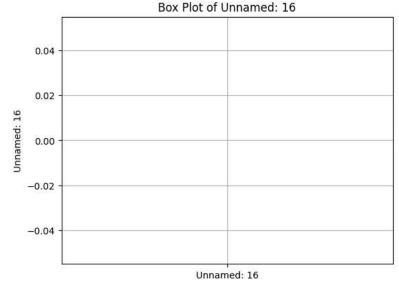
# Iterate through all columns and create box plots
for col in df.columns:
    # Check if the column is numerical (box plots are typically for numerical data)
    if pd.api.types.is_numeric_dtype(df[col]):
        plt.figure() # Create a new figure for each box plot
        df.boxplot(column=[col]) # Generate the box plot
        plt.title(f'Box Plot of {col}') # Set the title
        plt.ylabel(col) # Set the y-axis label
        plt.show() # Display the box plot
```











## Box Plot of Unnamed: 17

