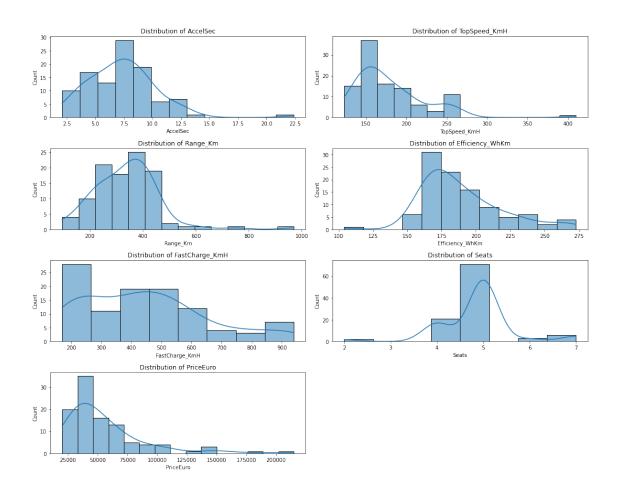
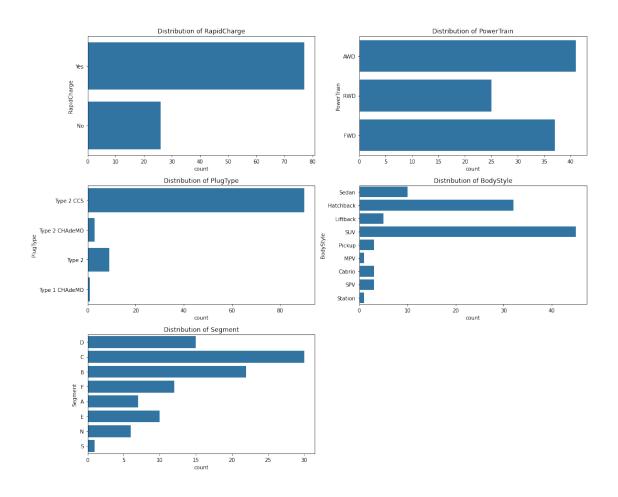
mainflow-4-main

July 7, 2024

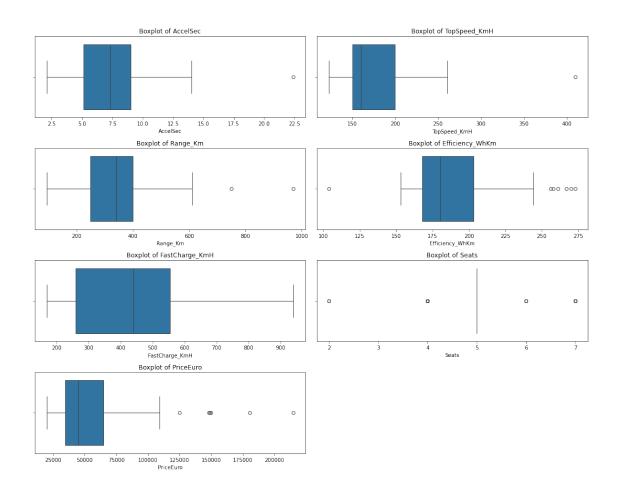
```
[3]: import pandas as pd df = pd.read_csv('EV_market.csv')
```

```
[9]: import matplotlib.pyplot as plt
    import seaborn as sns
    numerical_columns = df.select_dtypes(include=['int64', 'float64']).columns
    categorical_columns = df.select_dtypes(include=['object']).columns
    categorical_columns = [col for col in categorical_columns if col not in_
     plt.figure(figsize=(15, 12))
    for i, column in enumerate(numerical_columns, 1):
        plt.subplot(len(numerical_columns)//2 + 1, 2, i)
        sns.histplot(df[column], kde=True)
        plt.title(f'Distribution of {column}')
    plt.tight_layout()
    plt.show()
    plt.figure(figsize=(15, 12))
    for i, column in enumerate(categorical_columns, 1):
        plt.subplot(len(categorical_columns)//2 + 1, 2, i)
        sns.countplot(data=df, y=column)
        plt.title(f'Distribution of {column}')
    plt.tight_layout()
    plt.show()
```

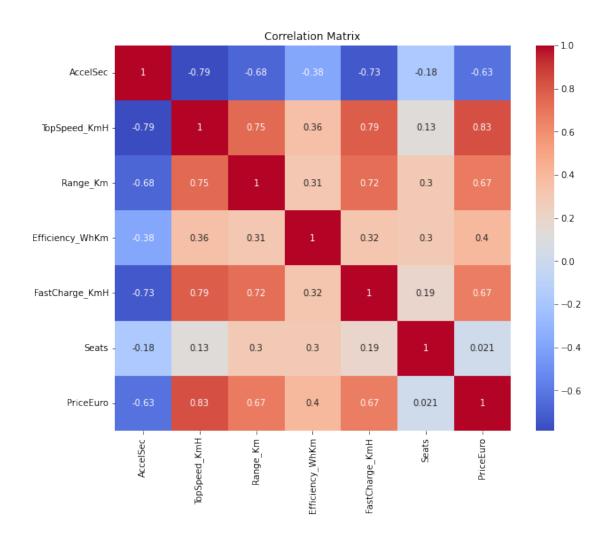




```
[5]: plt.figure(figsize=(15, 12))
for i, column in enumerate(numerical_columns, 1):
    plt.subplot(len(numerical_columns)//2 + 1, 2, i)
    sns.boxplot(x=df[column])
    plt.title(f'Boxplot of {column}')
plt.tight_layout()
plt.show()
```



```
[6]: plt.figure(figsize=(10, 8))
    correlation_matrix = df[numerical_columns].corr()
    sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm')
    plt.title('Correlation Matrix')
    plt.show()
```



[]: