```
In [25]: # Implementasi dengan Algoritma Naive Bayes (scikit-learn)
In [26]: import numpy as nm
         import matplotlib.pyplot as plt
         import pandas as pd
         dataset1 = pd.read_csv('data_train.csv')
         dataset2 = pd.read_csv('data_validation.csv')
In [27]: import seaborn as sns
         sns.scatterplot(x=dataset1['battery_power'],y=dataset1['clock_speed'], hue=dataset1['price_range'])
Out[27]: <Axes: xlabel='battery_power', ylabel='clock_speed'>
            3.0
                                                                   price_range
                                                                          0
                                                                         °1°
                                                                          2
            2.5
                                                                          3
         clock_speed
            2.0
            1.5
            1.0
                      (X)(()()
                               . .....
                                                                    .
                           ....
                                              6.0
                                                   . (0))
            0.5
                   600
                             800
                                    1000
                                           1200
                                                   1400
                                                           1600
                                                                  1800
                                                                          2000
                                         battery power
In [28]: x_train = dataset1.iloc[:, :-1].values
         x_test = dataset2.iloc[:, :-1].values
         y_train = dataset1.iloc[:, -1].values
         y_test = dataset2.iloc[:, -1].values
         from sklearn.naive_bayes import GaussianNB
         classifier = GaussianNB()
         classifier.fit(x train, y train)
Out[30]: ▼ GaussianNB
         GaussianNB()
In [31]: y pred = classifier.predict(x test)
In [32]: from sklearn.metrics import accuracy score, classification report, confusion matrix, ConfusionMatrixDisplay
         accuracy = accuracy_score(y_test, y_pred)
         print(f"Accuracy: {accuracy}")
         print()
         print("Classification Report:")
         print(classification_report(y_test, y_pred))
         print("Confusion Matrix:")
         print(confusion_matrix(y_test, y_pred))
         print()
         cmd = ConfusionMatrixDisplay(confusion_matrix=confusion_matrix(y_test, y_pred), display_labels=classifier.class
         fig, ax = plt.subplots(figsize=(5, 5))
         cmd.plot(ax=ax)
```

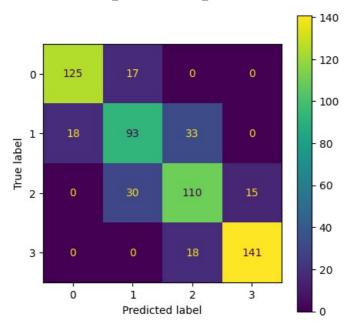
Accuracy: 0.781666666666666

Classification	Report:
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	precision	recall	f1-score	support
0 1	0.87 0.66	0.88 0.65	0.88 0.65	142 144
2	0.68	0.71	0.70	155
3	0.90	0.89	0.90	159
accuracy			0.78	600
macro avg	0.78	0.78	0.78	600
weighted avg	0.78	0.78	0.78	600

Confusion Matrix:

Out[32]: <sklearn.metrics._plot.confusion_matrix.ConfusionMatrixDisplay at 0x201d67be950>



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