

```
1 from sklearn.metrics import (  
2     PrecisionRecallDisplay,  
3     RocCurveDisplay,  
4     ConfusionMatrixDisplay,  
5 )  
6  
7  
8 def get_precision_recall_display(summary, plot=True):  
9     disp = PrecisionRecallDisplay(  
10         precision=summary["precision_recall_curve"][0],  
11         recall=summary["precision_recall_curve"][1],  
12         average_precision=summary["average_precision_score"],  
13     )  
14     if plot:  
15         disp.plot()  
16     return disp  
17  
18  
19 def get_roc_curve_display(summary, plot=True):  
20     disp = RocCurveDisplay(  
21         fpr=summary["roc_curve"][0],  
22         tpr=summary["roc_curve"][1],  
23         roc_auc=summary["roc_auc_score"],  
24     )  
25     if plot:  
26         disp.plot()  
27     return disp  
28  
29  
30 def get_confusion_matrix_display(summary, plot=True):  
31     disp = ConfusionMatrixDisplay(summary["confusion_matrix"])  
32     if plot:  
33         disp.plot()  
34     return disp  
35  
36  
37 def get_all_displays(summary, plot=True):  
38     return (  
39         get_precision_recall_display(summary),  
40         get_roc_curve_display(summary),  
41         get_confusion_matrix_display(summary),  
42     )  
43
```