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/Users/son-eungyul/Desktop/pythonProject/venv/bin/python /Users/son-eungyul/Desktop/UNLV/day5/e
```

```
Total windows: 146 Feature dimension: 45
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Class counts: {np.str_('circle'): np.int64(32), np.str_('pendulum'): np.int64(30), np.str_('x a
```

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Split sizes: 87 29 30
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Top sweep results:
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	n_estimators	max_depth	val_log_loss
0	50	None	0.025776
1	50	5	0.025776
2	50	8	0.025776
3	50	12	0.025776
4	100	5	0.026641
5	100	None	0.026641
6	100	12	0.026641
7	100	8	0.026641
8	200	12	0.030481
9	200	8	0.030481

```
Best params: {'n_estimators': 50, 'max_depth': None, 'val_log_loss': 0.025775926569291792}
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==== Test Metrics (Macro Avg) ===
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Accuracy : 1.0
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Precision: 1.0
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Recall : 1.0
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F1-score : 1.0
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Log Loss : 0.05319720225582778
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```
Confusion matrix (rows=true, cols=pred), labels = [np.str_('circle'), np.str_('pendulum'), np.s
```

```
[[7 0 0 0 0]
```

```
[0 6 0 0 0]
```

```
[0 0 6 0 0]
```

```
[0 0 0 5 0]
```

```
[0 0 0 0 6]]
```