

# Precision - Recall

## Definitions

- **Precision:** Equivalent to Purity in HEP
  - *Of all the events that the model predicted to be in a certain class, what fraction were actually in that class?*
- **Recall:** Equivalent to Efficiency in HEP
  - *Of all the events that were actually in a certain class, what fraction did the model correctly identify?*

$$\text{Precision} = \frac{TP}{TP + FP}$$

$$\text{Recall} = \frac{TP}{TP + FN}$$

# No Pre-training NN

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