



Wrapping up



• The cost in real-world applications

The cost of misclassifying observations of different classes is not the same.





Cost Sensitive Learning (CSL)

- CSL is a that takes (misclassification) costs into account.
- Goal: minimize the total misclassification cost

How do we determine cost?

Cost Matrix
provided by Expert

Domain expert
to determine
real costs

Heuristic

Imbalance
Ratio

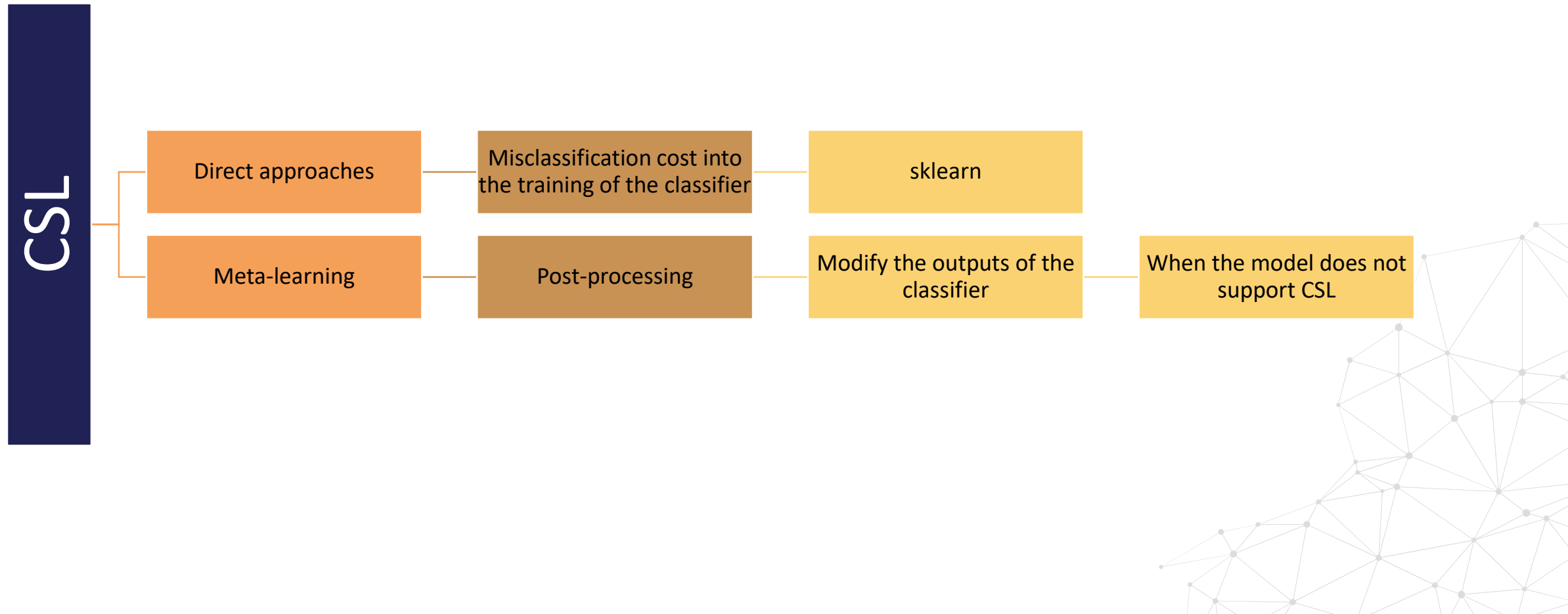
Optimisation



CSL with sklearn

- Implementing CSL with sklearn is super easy:
 - `class_weight` parameter
 - `sample_weight` parameter
- Challenge: determine the right costs

Cost Sensitive Approaches



THANK YOU

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