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Work position: ML-Engineer.
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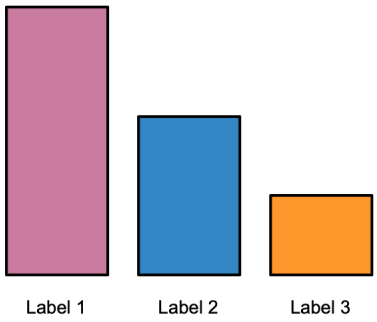
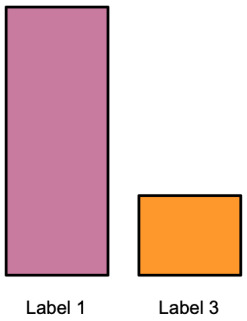
Oversampling

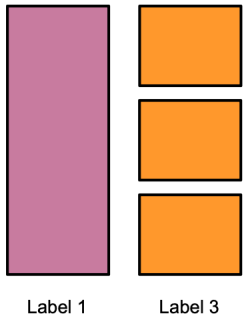
Step 0: We have imbalanced datasets.



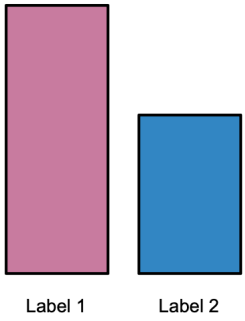
Step 1: We take the bigger dataset and we going to iterate with the other datasets.



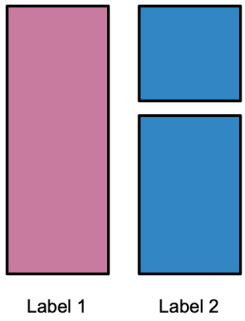
Step 2: Repeat and sample the smaller dataset till get the same size of the bigger dataset.



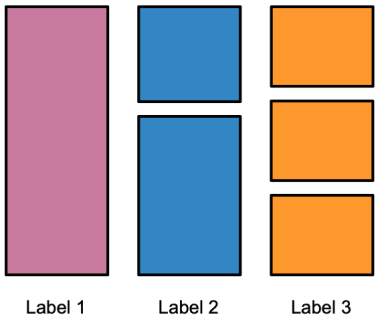
Step 3: We iterate with the other dataset.



Step 4: Repeat and sample the smaller dataset till get the same size of the bigger dataset.



Step 5: We finally have the final datasets.



Undersampling

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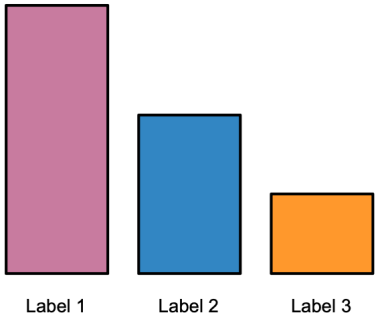

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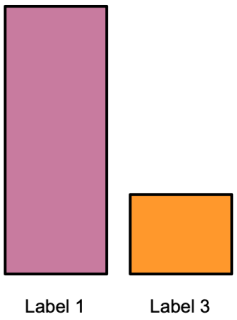

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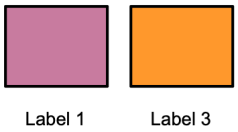

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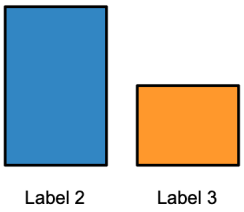

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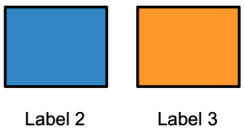

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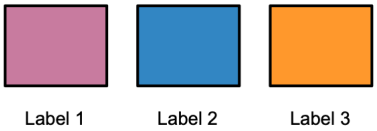

SMOTE

We can use this method only for structured data and we only have to apply the same strategy of **Oversampling**.
