

# agile - classify

How can we train a classifier with no negative examples?

Sampling random audio from the database is gives us negative examples on average. We call these 'implicit negatives.'

But also examples which have been human-evaluated may have other sounds present: Then these examples are implicit-negatives for all other classes where a negative hasn't been explicitly specified.

Good training data then comes in two forms:

- Positive examples.
- Explicit / Hard Negatives
- Implicit / Diverse negatives.

We can reduce the weight of the loss for implicit negatives to avoid learning 'false negatives' too strongly.

We can also mix in different random implicit negative examples from the database with every batch to maximize the diversity of what the classifier sees!