

Preparing training data:

(Labeling the sequences)

For every hourly sequence, we check the "HAS SHOCK" feature for the next upcoming hour.

> **Applying Standard** scaler on generated sequences

Applying SMOTE on the training data

> Training the XGBoost model with

For every patient in the test set:

- 1. Generating hourly sequences.
- 2. Labelling the sequences for ground
- 3. applying stanndard scaling to the generated sequence data
- 4. passing it on to the trained XGBoost
- 5. Evaluating the metrics for each patient

Calculating overall evaluation metrics for all test patients