Input

Augmented Input

X_1

Bottle-Neck

X_2

X'_1

X

X' , Y

$M(X')$

X_{m-1}

$X'_{m'}$

X_m

M(X') = Tree model for X'

ZINB Auto-encoder

Sklearn.tree.DecisionTreeClassifier

Single Cell RNA-Seq Dataset
X = Gene expression