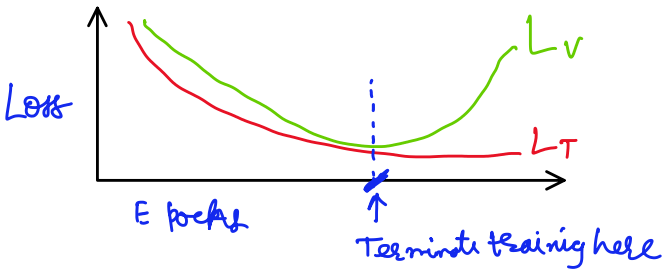
Question 3.2

Tuesday, April 21, 2020 6:00 PM

Given: $L_V >> L_T$

Option to increase model Accuracy:

(1) Use early termination during optimization to obtain a trained model which does not over-fit



(2) Train with a regularizer augmented loss to avoid over-fitting. Domain Knowledge can dictate the choice of regularizer.

$$L^{aug}(\theta) = L(\theta) + \beta S(\theta)$$

Regularizer

(3) Reduce model order to avoid over-fitting

(4) Train with more data (if possible)