

### Question 3.3

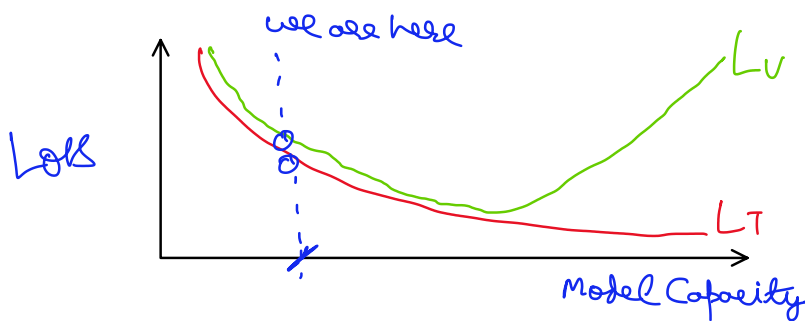
Tuesday, April 21, 2020 6:00 PM

Given:  $L_V \approx L_T$

#### a) Capacity of Model

In this case since  $L_V \approx L_T$ , we might be under-fitting.

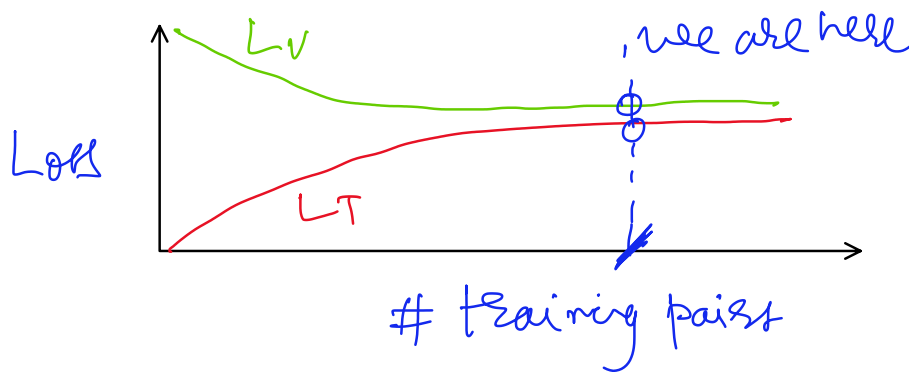
This means that our model capacity is small



#### b) Amount of Training Data

In this case since  $L_V \approx L_T$ , we have

sufficient amount of training data for the given model capacity



**Note:** The amount of training data may not be sufficient if we decide to increase the model capacity