Assessing Model Accuracy. Say, we have our "usual" regression model Y=f(X)+E Say, we fit our model on some training data: Tr = { (xi, yi): i=1, ..., N} Let f be the fit of the model to our Tr. MSE_{Tr} := Aue $(y_i - \hat{f}(x_i))^2 = \frac{1}{N} \sum_{i=1}^{N} (y_i - \hat{f}(x_i))^2$ We propose to look @ other data Te = { (xj, y;): j=1..., M} These are our testing data. We calculate MSE_{Te} := Aue $(y_j - \hat{f}(x_j))^2 = \frac{1}{M} \sum_{j=1}^{M} (y_j - \hat{f}(x_j))^2$