Note:
$$S^2 = \frac{1}{N-1} \sum_{i=1}^{N} (x_i - \bar{x})^2$$
 $Y = \beta_0 + \beta_1 X_1 + \dots + \beta_1 Y_d$
 $E[X] = \sum_{i=1}^{N} (x_i - \bar{x})^2$
 $E[X] = \sum_{i=1}^{N} (x_i - \bar{x})^2$

= ECXJ + E[Y]

= 22 x f,y(x,y) + 25 y f,y(x,y)
= EC x 7 + F 5 47 xy xsy

52 is au unbiased estimates for o2, but V52 is not an unbiased estimater of or 25E= V= 55E Solution: Standard error of the mean use & from train, but care sse on tat! (Standardarvikehen i modlet) In ML we instead use