Your friend tells you their objective is better than yours. Can you justify their claim. Their method hois the potential to generalize to unseen data better, as E can prevent you from over fitting. Suppose you want to train a linear model & = ax and nave the following data.

Training with MEE yields the fitted model: y = 1,15x with test error: (0,15)2+(0,3)=0,1125 However, if you train with min R(g) = min 1 M5E - E 1+ E and set & = 0,1125, you may yield the fitted model y = x with test error: (1-1)+(2-2) =0

59 Your Friend claims their objective can be even more effective if & is chosen more carefully. Explain how. This is the bias-Variance tradeott. Lowering & increases variance and reduces biens. Nou can tune epsilon to achieve better model generalization.