If the septem works gust for training data well doesn't work for the whole system, we say the dimodel is overfitting the data. under fitted However if the system is too generic of doesn't even work well with training data, we say the system is under fitted~ have multiple vers with fiff. data

Mare model is biased. [Gold be under training date, so, thre will be a large variance across different runs. - Variance a overfitting are related Under hitting Over litting -> bigs (not necountly due to undersiting) - Vousiance -> fits VERY WELL on trining data -> doesn't fit well even on training data - garbage either way -> Works well on training data but not on testing seld > make a more complex model to - ux less complex model -> may involve more features - use less features -> get more data.

-> vse another set (rapped validation) -or try a diff also. - add pinalizationtern to Penulize sys