Model fitting (AKA traning or learning)
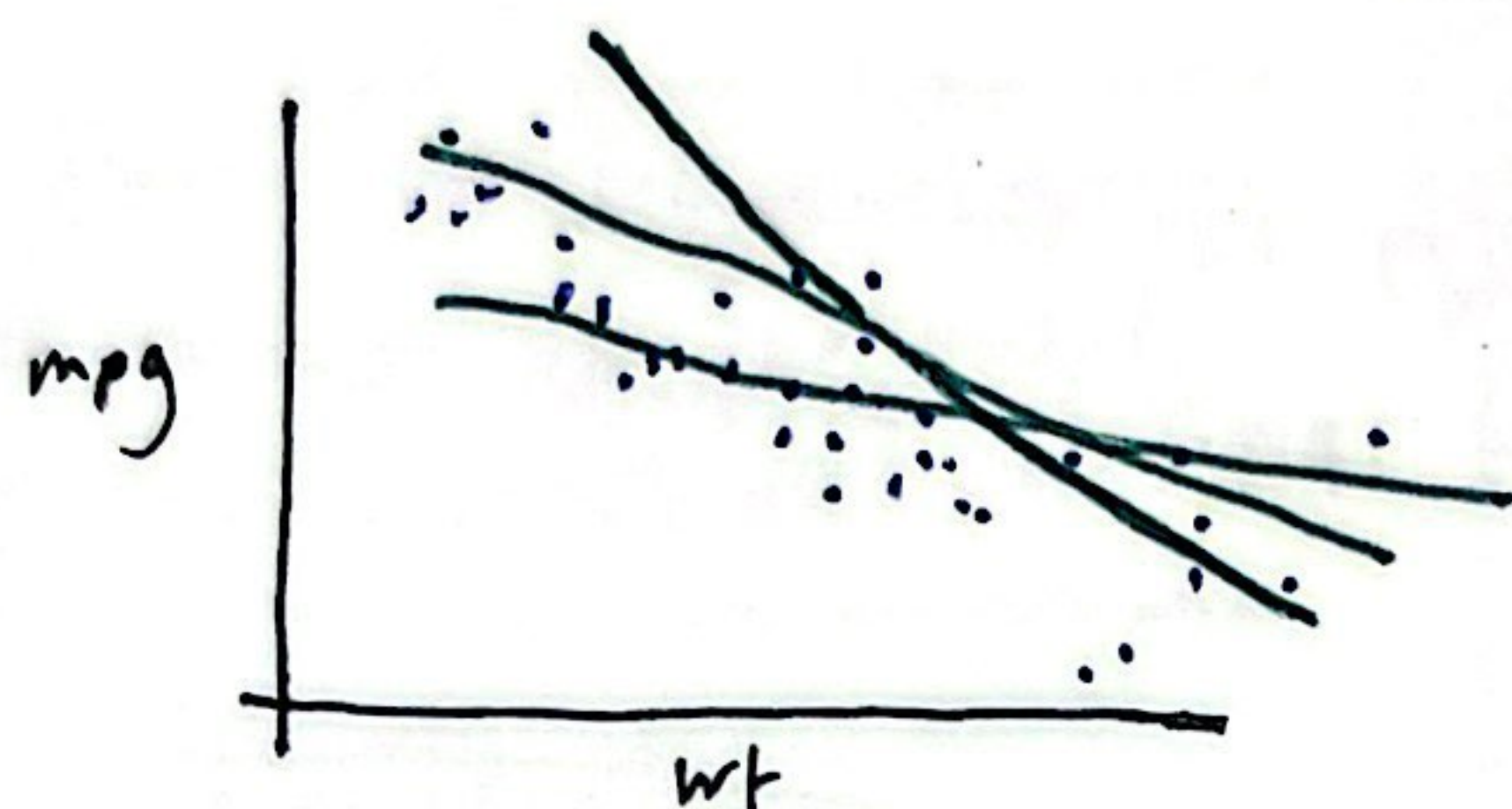
- is the process of adjusting a models parameters to find the best match between the models predictions and the actual data

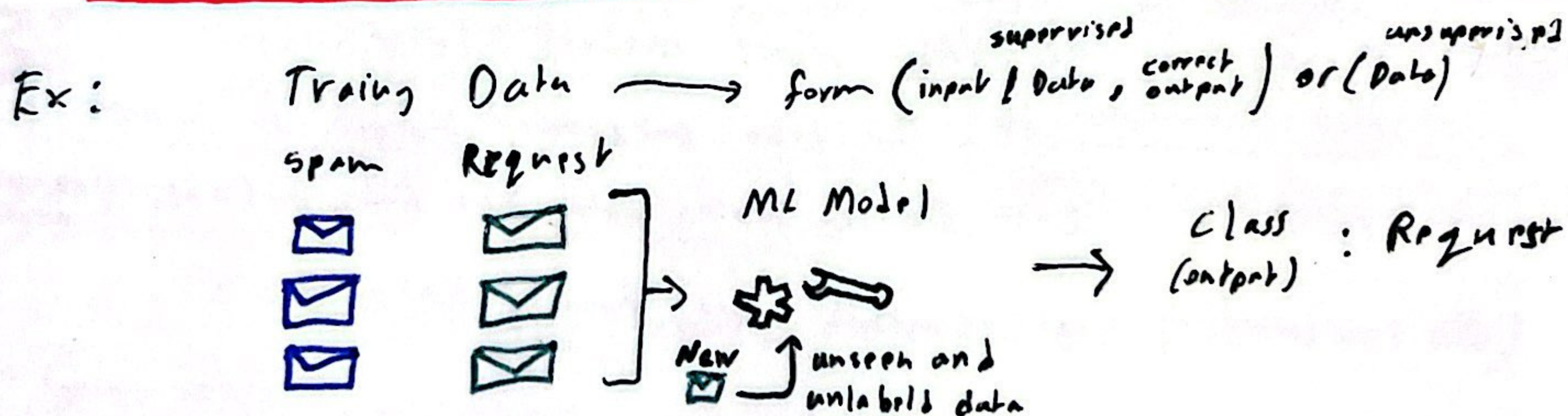Ex: in liner Regresion model fitting is trying out different lines until you find the line with the best fit

mpg

wt

try lines of
best fit
until best (traing)
match

Training Data (train set)

- is a carefully selected subset of data used to teach ML models how to make predictions

Ex: Traing Data ⟶ form (input / Data, correct output) or (Data)
                              supervised   unsupervised

spam   Request

ML Model

Class : Request
(output)

New ⌐ unseen and
     └ unlabeld data

• the training data is 1000's of emails labeled as spam/non spam used to teach the system to regoghize characteristics of unwanted messages

Ex: in Images it could be 1000s of labeld images of cats/dogs For Ex and we would use that to teach the model what is cat vs Dog it would learn to regogize it based on characteristics
- Ex cats have wiskers dogs have tounge out etc...

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