Linean Regnession un depth Maths Inlution J=mx+c -> Best fit line C= intencept (00) constant whathink we have a dalaset with & Featone there are Size and price and ) Oun dala the dolle we need to Sope (c) we are doing By Regnession line. (08) Regarezion agosimithm to carale a Bt Pit line Such this best fine line does prediction of my feature. How we can fit the Best fit line we can draw multipi lines also and we can try to mins. He Crror and we will add all the error and which best line gespies less error that salve is called minimal Error

To get the Best lit line we we the cost function Cost function in meachine learning A meachine learning model should have a very high level of accuracy in order to perform well with real-woorld. application But how to. Calculate the accuracy of model ie, how good on poor model will perform inval world? in Such Case, the cost function comes in existence. Independent Variable

Cost function also plays a countral vole in understaning that show well your model exstimate the relationship between the input and Basically werest Output parameters = 1 2 (9-4) 1 minimzette Cost function confferdion d = wx+c y=mx+c I is nothing but the point that you are findoutable bestfit line but real point
y is nothing but real point By using the ear O How we can find the best fit? we can have mustip best fit vight and we need to comput allthe sum of y that is not a convent way it will take so much of time. to do.

The Best wary was It cis power though conging the best lit line. J=mx+c-> 1[[c=0] J=mx -0 wil x=3 g=1×1. . He the Best fit line lookeds like



