ii. Logistic Regression

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be -> Value on hight at \$ =0

* Algorithm:

- 1. God a bunch of Points in R2, { Coci, si)}
- 2. want to fit a line y = ax +6 that describes the tenend.
- 3. We define a cost function that computes the total Squared conscer of our predictions wint.

 Observed values y' J(a,b) = {(axi+b-yi)² that

 we want to minimise.
- 4. See it as a function of a and b: compute both degrinatives and force them equal to zero and Solve for a and b
- 5. The coefficients you get give you the minimum Squared charact.
- 6. can do this for specific Points on in general and find the formulas.
- 7. More general version in Rn.

* Condusion:

Thus linean negenession model on the given Dateset is applied by a best fit of. is calculated.

y = 12.585 + 4.588 oc