

9.3

$$P(y | x, \theta) =$$

Prob of y given x, θ

y = output var try to predict

x = indep var using to predict

θ = Model parameters, i.e. slope + intercept. we need to learn

These

$$\hookrightarrow y = \theta_0 + x \theta_1$$

$$N(y, x, \theta, \sigma^2)$$

N = Norm dist

y = var that is norm dist

linear regression can ~~take~~ create non-linear transformation because linear regression refers to models that are linear in the parameters

Models that describe a function by a linear combination of input features