Machine Learning

Week 3

Section 1

Logistic Regression

Classification Problems

* Email: spam / not spam
* Online transactions: fraud
* Tumor: malignant / benign

Predict y { 0 / 1} { negative / positive } { absent / present }

y can also predict multiple values ex { 0 1 2 3 }

Logistic regression does not work well with classification problems because classification is not a linear function.

So we will develop logistic regression for a classification algorithm.

A picture containing table

Description automatically generated

Hypothesis Representation