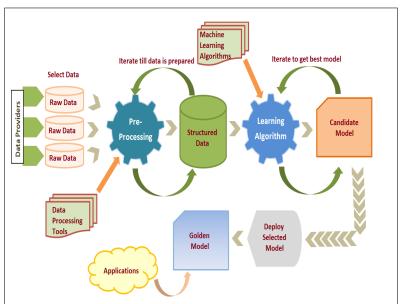
Support Vector Machine

Dr. Chandresh Kumar Maurya

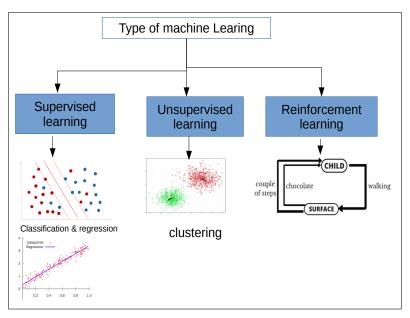
IBM Research, Bangalore

November 17, 2018

What is machine learning?



Types of machine learning?



Support Vector Machine

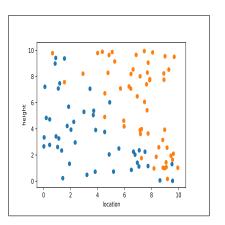


Figure: Binary class data

Contd...

We will consider binary classification problem. Hypothesis function is a hyperplane which is an extension of line in more than 2-D. Eq. of an hyperplane looks like:

$$h(\mathbf{x}) = \mathbf{w}^T \mathbf{x} + b \tag{1}$$