# Overview

* AI is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.

# Linear Regression

## Cost Function

* Cost function represents difference between actual value and predicted value
* We can measure the accuracy of our hypothesis function by using a cost function.
* This takes an average difference of all the results of the hypothesis with inputs from x's and the actual output y's.
* We choose function parameters such that output of h(x) is close to actual output y
* Also called squared error function

