# Chapter - 3 Linear Models

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#### 1 Introduction

We have already covered one linear model in chapter 1 - The Perceptron. Let us begin here by revisiting a slightly modified and enhanced version of Perceptron that works for non-linearly separable data as well.

#### 2 Linear Classification

Pocket Perceptron.

#### 2.1 Input Representation

Feature Engineering.

### 2.2 Pocket Perceptron

Works for non-linearly separable data.

### 3 Linear Regression

#### 4 References

1. CalTech Machine Learning Course - CS156, Lecture 2.