Lectures

Ilia Kamyshev

January 6, 2021

Contents

1 Rosenblatt's perceptron

1.1 Introduction

Recall: for an input $x \in \mathbb{R}^n$, the parametrized function describing the mapping computed by a perceptron is:

$$F(\omega, x) = F((\omega_1, \omega_2, \ldots, \omega_n, \theta), (x_1, x_2, \ldots, x_n)) = sgn(\sum_{i=1}^{n} \omega_i x_i - \theta)$$