Overview of Artificial Neural Networks Example

Dataset Link:

<https://www.kaggle.com/uciml/pima-indians-diabetes-database>

Dataset Content:

This dataset contains nine columns. Eight of them consist of several diagnostic measurements such as number of pregnancies the patient has had, their Body Mass Index, their insulin levels, their age, their blood pressure etc. The last column contains values of (0) and (1) which indicate if the patients have developed diabetes or not.

Problem:

We are working as medical doctors at a hospital and we would like to create a mapping function which predicts if our patients have developed diabetes or not.

Solution:

We want to develop a classification model using Artificial Neural Networks which allows us to predict if our patients suffer from diabetes or not.

Variables:

Independent variable 🡪 Number of pregnancies, glucose, blood pressure, skin thickness, insulin, BMI, diabetes pedigree function and age.

Dependent variable 🡪 Presence of diabetes or not (0, 1).