LIOK Bhawankar PDog

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## BI Assignment - 4

A Aim:

Implement a classification algorithm
(ANN Algorithm)

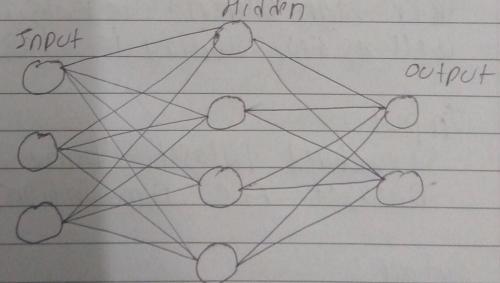
theory:

Brief theory on ANN Algorithm

ANN algorithm i.e. artificial neural network (XNN) usually called neural networks (NN).

they are computing systems inspired by biological meural network.





An ANN is an interconnected group of notes inspired by a simplification of neural in a brain.

Here each circular node represents: an AN and an arrow represents a connection from the output of one artificial neuron to the input of another.

Neural Networks are used for solving many business problems such as sales Forcashing, customer stegarch, duta validation and risk management that and validation of neural networks include their high tolorence to noisy data as well as teir ability to classity patterns

Structured Dataset: - Dima Indians Diabetes Dataset File - Dima Indians Diabetes CSV.

pata is partitioned into training and resting and applied the classifier for visualization of the performance of an algorithm.

conclusion!

Hence using ANN classification

algorithm, the classification on ping

Indians Dataset is performed using

Python program.

X FAG

computationally efficient for high
dimensional problems? why?

I haive Bayesian classifier is
considered computationaly efficient

For high dimensional problems.

- Beause Naive bayesian classifier honolg categorical variables with large number of levels 2 Supervised and Unsupervised Learning?

A supervised Learning algorithm learns from labeled training data, helps you to predict outcomes for un foreseen data.

Résults are Highly accurate. In this data input 4 output variables are given.
Types:- 1. Regression

2. Classification

In Unsupervised Learning is a machine
learning technique where gou to not
need to supervise the model. Insted
you had to allow the model to work an
its own to discover information
only input data is given patais not
lo beled. It is computationally complex
that does not use output data
Types: I. clustering

Association