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Raport Proiect ISIA

Ce problema rezolvam?

Determinarea procentajului nivelului de Ozon

Descriere data

- Dataset : https://archive.ics.uci.edu/ml/datasets/Ozone+Level+Detection
- Dimensiune date : 2536x73
- Informațiile atributelor:

WSR0-WSR23: continous
WSR_PK: continuous.
WSR_AV: continuous.
T0-T23: continous:
T_PK: continuous.
T_AV: continuous.
T85: continuous.
RH85: continuous.
U85: continuous.
V85: continuous.
HT85: continuous.
T70: continuous.
RH70: continuous.
U70: continuous.
V70: continuous.
HT70: continuous.
T50: continuous.
RH50: continuous.
U50: continuous.
V50: continuous.
HT50: continuous.
KI: continuous.
TT: continuous.
SLP: continuous.
SLP_: continuous.
Precp: continuous.

Librarii folosite

- sklearn

- pandas

- numpy

Folosirea datelor

Am luat setul de date si l-am impartit in :

- 75% date de train
- 25% date de test

Parametrii Retelei Neuronale

- 1 strat ascuns - 50 neuroni
- 1 strat ascuns - 200 neuroni
- 2 straturi ascunse - 70 si 50 neuroni
- Learning rate - 0.1 și 0.01

Rezultate

- 1 strat ascuns(50 neuroni) si learning rate = 0.01 => 98.87**%**

- 1 strat ascuns(200 neuroni) si learning rate = 0.01 => 99.06**%**
- 2 straturi ascunse(70 si 50 neuroni) si learning rate = 0.01 => 99.06**%**

- 1 strat ascuns(50 neuroni) si learning rate = 0.1 => 99.065**%**
- 1 strat ascuns(200 neuroni) si learning rate = 0.1 => 98.878**%**
- 2 straturi ascunse(70 si 50 neuroni) si learning rate = 0.1 => 99.065**%**