NAME Shoutika ROLL PA 29 Panel 1 Subself AI Lab 5

\* ITTE: Implementation of newsor network for any applications.

\* AIM: - Implement network for any application

\* POLEOBIECTIVE = 10 study & implement newsork

\* THEORY

1) News Network Aschitectuse

News networks one complex structures made of artificial newsons that can take in multiple input to Produce single output this is primary soo of newsy network

the newsol network out newsons influence each other and wence one commetted the network zon acknowledges observe every object of dateset of hond and now the different ore pasts of data may or may not relate to each other.

Layer Suit dentagers metwork they receive infut from protected network they receive infut from external source when all redes values from point of input layer are multipled on summatied it generates value for first rayer is Know as hidden loyer it colorlates necessary activation booled on ill tayer and forwards it to outful

Deep leasning fromework: 
A deep leasning tramework is an interface library

or a tool which allows as to build deep teasining

models more easily and quickly, without getting

into details of underlying algorithms they provides

a clear soconeise way for actining moders using to components

cottextion of frequit and oftimized components

key features

( of optimized for performance

(b) Easy to whatstand and code. (c) crood community support Id parouelize the process to seduce computation (c) Automathay compute growints (3) commonly used 3 activation functions. Of sigmoid or posición activation cuare los sikes super b) town or hyperbolic tunetion " progratic sigmoid by C) Rehy (Rectified Linear Unit) Uses max of values less than 2000 X Platfoon :- Windows. X FAQS I which agosithm is used to train the newsey network! Dy producat Descept used to find local minimum of Furetich (b) Evolutionary algorithms :- Based on concept of retular selection or sustinal of Aittest ( C) "renesic algorithm : Etable most appropriate size for the solution of problem & select it How to decide no of hidden layer in noway south to Seperate Classes b) to correct lines cocated by Previous layers, a hew hidden neuso:

9 Number of selected lines represent no of hideh neusons in first hidden layer. of to comment lines crossed by Previous toyes a new hidden time you had to create connection among the lines in previous hideh layers. (e) Theno, of hidden newsonsin each new hidden layor equals the no of conhections to be made 3) What is drawweek of deep tearing (2 Joy Requires very large data in over to perform better than other techniques. b) It is cetsemely expensive to train due to complete modern moder over; deep teasing dequices expensive up and hundreds of machine Its not easy to comprehend output base on teashing. 1) These is no Standard theory to guide you in selecting right deep leaving tooks as it dequises knowledge of topology, training, method and other parameters.

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