Aim:-Clossification using Deep Neural Network:
Binary clossification using deep neural network:
Clossify movie reviews into 'positive' reviews and 'negative' reviews just based on text context of the review use IMDB dotoset

Potaset Description:-

We will use IMDB do to set which contains 50,000 movie reviews that are labelled as 'positive 'or negotive! The dotoset is split into 25000 reviews for training and 25000 review for testing

Objectives:-

- i) To implement different deep learning models.
 ii) To understand hardware acceleration
 iii) To illustrate concepts of Artificial Intelligence
- Machine Learning (AZIMU)

Requirements:-

64 bit windows o.s., python
python libraries - Numpy Scitit learn, Keros
Tensorflow.

Jupyter notebook

Theory !-

Binary classification:

Binary classification is a type of machine learning problem where the task is to classify data into two categories.

In this practical assignment, we will use peep Neural Network to perform binary classification of movie review based on their text.

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Deep Neural Networks are a type of machine learning model that are capable of learning complex patterns of data.

In machine learning, binary dossification is a supervised learning algorithm that categorizes new observations into one of two dosses.

Algorithm: -

- D Lood the datoset using built-in function in Keras.
- 2) Pre-process the dotaset by converting the integer sequence into a binary motrix using one-hot encoding

3) Split the training dotoset into training and volidation sets. 4) Implement a deep neural network with following orchitecture: - An embedding loyer to convert the integer sequence into desire vectors of fixed 5170 - Two dense layers with Relu activation - A final dense layer with a sigmoid octivation function to output probability For 'positive' or 'negotive! 5) Train the model using Adam optimizer and binary cross-entropy loss function. Evoluate the model on the test dataset and report the accuracy and loss. Experiment with different hyperparameters such as number of hidden units and learning rate and evaluate the model performance

Solve the trained model for future use

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