

Use's of python library

NumPy

It provides support for large, multi-dimensional arrays and matrices, along with a collection of mathematical functions to operate on these arrays efficiently.

NumPy is a foundational package for various scientific and engineering applications involving numerical operations and data analysis.

Pandas

The pandas are a powerful and popular open-source data manipulation and analysis library for python.

It provides easy-to-use and highly efficient data structures, primarily the 'data frame and series that ' enable to work with structures and labelled data developed on the NumPy, pandas

#Pandas is well-suited for cleaning, exploring and analysing tabular data

matplotlib

matplotlib is a comprehensive 2D plotting library for python that generates high-quality visualization it provide a flexible and versatile platform for creating a wide range of static, animated and interactive plot and chart

#matplotlib is widely used in data visualization scientific research and other fields making it an essential tool for conveying complex data insights in a visually compelling manner. with a variety of customization option matplotlib

#enables user to create publication-quality figure and visualization

TensorFlow

this libraries is open source libraries this can developed by google brain team ,

It helps the developer design building and train deep learning model

In the graph we use nodes to represent the mathematical operation and is to represent the data that is communicate from 1 node to another node

#It has become one of the most widely used frameworks in the field of artificial intelligence and machine learning

PY Torch

PyTorch is a popular open-source deep learning library in python that facilitates the development and training of neural networks. known for its dynamic computational graph

And eager execution, PYTorch offers flexibility and ease of use. The library provides a versatile tensor data structure an intuitive neural network module and automatic differentiation through its auto grad system PYTorch supports GPU acceleration, enabling efficient training on graphics processing unit with a vibrant choice for researchers and practitioners in the machine learning and ai