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1. Pandas

Pandas is a Python library used for working with data sets. It has functions for analyzing, cleaning, exploring, and manipulating data. Pandas allows us to analyze big data and make conclusions based on statistical theories. Pandas can clean messy data sets, and make them readable and relevant.

1. Numpy

NumPy is a Python library used for working with arrays. It also has functions for working in domain of linear algebra, fourier transform, and matrices. In Python we have lists that serve the purpose of arrays, but they are slow to process. NumPy aims to provide an array object that is up to faster than traditional Python lists. The array object in NumPy is called ndarray, it provides a lot of supporting functions that make working with ndarray very easy. Arrays are very frequently used in data science, where speed and resources are very important.

1. Tensorflow

TensorFlow is an open-source machine learning framework developed by Google. It provides a comprehensive, flexible ecosystem of tools, libraries, and community resources that let researchers push the state-of-the-art in machine learning, and developers easily build and deploy ML-powered applications. TensorFlow is widely used in industry and research due to its flexibility, scalability, and comprehensive set of tools.

1. keras

Keras is a high-level neural networks API written in Python that runs on top of lower-level deep learning libraries like TensorFlow. It was developed to make deep learning and machine learning more accessible and user-friendly, allowing developers to quickly prototype and build deep learning models without needing to write a lot of low-level code.

1. sklearn

Scikit-learn (often abbreviated as sklearn) is a popular machine learning library in Python. It provides simple and efficient tools for data analysis and modeling, with a focus on machine learning. Scikit-learn is a free software machine learning library for the Python programming language. The features of sklearn are Classification, Regression, Clustering, Dimensionality Reduction and Model Selection.

1. Pytorch

PyTorch is a popular open-source machine learning library developed by Facebook's AI Research lab (FAIR). PyTorch is a Python-based library that provides tools for deep learning, particularly in the areas of neural networks and natural language processing (NLP). It is known for its flexibility, ease of use, and support for dynamic computational graphs, which allows developers to change the architecture of the network on the fly, making debugging and experimentation much easier