

Components of Python ML Ecosystem

In this section, let us discuss some core Data Science libraries that form the components of Python Machine learning ecosystem. These useful components make Python an important language for Data Science. Though there are many such components, let us discuss some of the importance components of Python ecosystem here –

Jupyter Notebook

Jupyter notebooks basically provides an interactive computational environment for developing Python based Data Science applications. They are formerly known as ipython notebooks. The following are some of the features of Jupyter notebooks that makes it one of the best components of Python ML ecosystem –

Jupyter notebooks can illustrate the analysis process step by step by arranging the stuff like code, images, text, output etc. in a step by step manner.

It helps a data scientist to document the thought process while developing the analysis process.

One can also capture the result as the part of the notebook.

With the help of jupyter notebooks, we can share our work with a peer also.

Installation and Execution

If you are using Anaconda distribution, then you need not install jupyter notebook separately as it is already installed with it. You just need to go to Anaconda Prompt and type the following command –

```
C: \>jupyter notebook
```

After pressing enter, it will start a notebook server at localhost:8888 of your computer. It is shown in the following screen shot –

Jupyter Notebook
Page not found. The type is unknown

Now, after clicking the New tab, you will get a list of options. Select Python 3 and it will take you to the new notebook for start working in it. You will get a glimpse of it in the following screenshots –

Python Table
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On the other hand, if you are using standard Python distribution then jupyter notebook can be installed using popular python package installer, pip.

```
pip install jupyter
```

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