5 python packages what they do and why I want to use it

1.Bokeh

Bokeh is an interactive visualization library that works with Python to create data applications, dashboards, and more. The main purpose of Bokeh is to create visuals that are then embedded into web applications. Data can be interpreted and then spit out into a functioning pie chart that shows the summary and specifics of said data for example. This package is also very useful for data collection/presentation. I’m interested in this package specifically because I'm interested in creating a website of my own in the future and interactive features liven up a website a lot.

2. PyTorch is a package mainly used for machine learning application. This package is very flexible as it can be used for differentiation and computation graphs. I was first introduced to PyTorch at my last job and was amazed by the functionality and capability it has. There's millions of data points to reference in a system like /turbocams and I could imagine a package like this really simplifies and speeds up ML programs. There is a large community behind this package as it’s utilized widely. Academic and professional research is done with the use of this package as it’s also used in pretrained models.

2. NLTK is another information/research based package as its used primarily for info retrieval. This package can process text, tokenize, and classify variables as well. NLTK can also process natural language and be very helpful in a text analysis program. I found this package via google search and took an interest in it as I’m interested in any data collection. You may also see the use of NLTK in production environments but not nearly as much as you would i years prior as it's a sort of dated package.

4.PyGame as the name suggests manly used for writing video games. PyGame can render graphics. play sounds and handle user input. The package can also manage game loops which I’m not very familiar with. The language claims to be simple for beginners and advanced students to utilize as it has a vast community. This package can run very slowly when used if the GPU features aren't utilized. Programs that don't utilize all of the GPU can sometimes be rewritten in different terms to accommodate. I’d be interested to see how this package works and if it can be used in other instances.

5.PyBrain is a package mostly used for building and training networks. PyBrain is very popular in the machine learning world as it is used for algorithms and architectures as well. The main purpose of this package is to experiment with neural networks,feed forward networks and more. PyBrain is versatile as well as a great supporting task, supporting things like classification and regression. I’m very interested in machine learning so hats how i found this package. I’d definitely want to see how i could put it into use in a manufacturing setting.