**What is Python?**

* Python is functional object oriented high level language.
* It has simple syntax which will make our life as a developer easy to create and maintain python based applications
* We can rapidly develop python applications because it comes with several inbuilt libraries or modules which can be used to come up with the functionality we want for our application.
* So python is interpreted and it is very quick.
* There is no compilation in python.
* Python is both functional and as well as it supports all the object oriented principles.

**Features of Python**

* Easy to learn and easy to apply
* Python has interactive mode
* It has bulk standard library
* It is portable
* It is case sensitive
* We can develop GUI applications
* It is used to develop database applications
* It supports automatic garbage collection

**Applications of python**

**Web applications Development:** Python is widely used for developing large scale web applications that are not possible to build and develop using other languages like.NET and PHP as python is very much powerful in supporting many Ultra features that is very easily executed with different frameworks like Django, Flask, Web2py and many more

* Gaming app development
* App Development (Netflix, Spotify)
* Artificial intelligence, machine learning, deep learning
* Desktop GUI applications::as python is having standard library TK inter gives you possibility to create small, simple GUI applications.
* Audio and video based applications
* Image processing
* Text processing

**Advantages of Python**

* **Easy to learn and use**: as a developer it is easy to build applications
* **Performance:** performance of the applications developed in python is good because python is interpreted language and there is no additional step of compilation
* **Rapid development:** we can quickly develop our applications because python comes with a lot of inbuilt modules that can be used for applications we need not to do code everything from scratch, there is a lot available in python itself, that can be used.
* **Dynamically typed**: just like JavaScript, python is dynamically typed )we need to we need to specify what datatype we are assigning to a variable it will automatically decide what type of data that variable is carrying .
* **Community:** Python has a good following and python has a huge community

**Django**

* Django is an open source framework for backend web applications based on python
* Django follows MVT architecture model template view
* Django mainly used for building API’s and also helps to create dynamic web applications
* Websites that are build with Django framework

Pintrest

Instagram

Netflix

Spotify