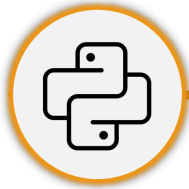


Why Python?



Why Python?



Python is a free, open-source programming language that is both **powerful** and **easy to learn**

It has become one of the most popular languages in the world because of its **accessibility, flexibility, ease of use**, and **wide range of applications**, such as:



Data Analytics



Software Dev



Web Development



Web Scraping



Machine Learning

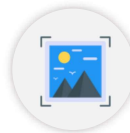
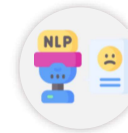
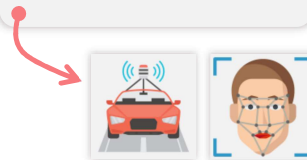
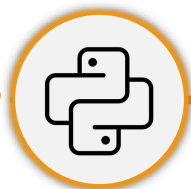


Image Processing



NLP

Natural Language Processing



Python Analytics Areas



General Purpose



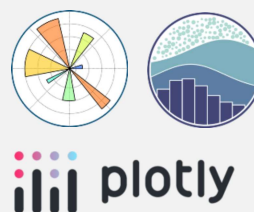
Learning **base Python** will give you the capability to write programs for your general purpose for example: downloading videos from YouTube

Data Manipulation



Pandas library helps us handle structured dataset. Structured datasets are similar to SQL or Excel. **Pandas** also provide us lot's of useful tools to manipulate data to gain intuition about our data

Data Visualization



Matplotlib and **Seaborn** can create a wide range of visualization

Plotly can be used to create interactive visualizations and dynamic dashboards

Machine Learning



Scikit learn is one the most common package for building machine learning models

Statsmodels provides proper tools for model building and statistical analysis

TensorFlow is the industry standard for developing deep learning models