Machine learning is important because as model are exposed to a new data, they are able to independently adapt the learn from previous computation to produce reliable repeatable decision and result. Machine learning algorithm divided into three type/categories which are supervised learning algorithm, unsupervised learning algorithm and reinforcement learning algorithm.

Python is general purpose programming language; hence you can use the programming language. Also python designed with feature to facilitate data analysis and visualization.

Essential tools and library for python are

Numpy (Number python) is an extensive library for data storage and calculation (mean ,max, min,std 25%, 50%, 75% ,count), also numpy used for multidimensional arrays.

Maltiplotlib used for visualization of data by plotting chats, histogram, scatter diagram.

Pandas is most powerful library for data manipulation. it can have used to load, save and filling and check missing data.

Scitkit-learn is huge library of data analysis feature. In scitkit-learn there are classification model, regression model, cluster analysis, model turning and selection.