**SYSTEM ANALYSIS**

**ANACONDA:-** Anaconda is a data science platform for data scientists, IT professionals, and business leaders. It is a distribution of Python, R, etc. With more than 300 packages for data science, it quickly became one of the best platforms for any projects.

**JUPYTER NOTEBOOK:-** The Jupyter Notebook is an open source web application that allows you to create and share documents that contain live code, visualizations, and narrative text. Uses include data cleaning and transformation, numerical simulation, statistical modeling, data visualizaiton, machine learning and much more.

**PYTHON:-**  Python is a general purpose and high level programming language.Python is used for developing GUI applications, websites and web applications. Python is a high level programming language, allows you to focus on core functionality of the application by taking care of common programming tasks. The simple syntax rules of the programming language further makes it easier for us to keep the code base readable and application maintainable. Python also supports several programming paradigm. It supports object oriented and structured programming fully. Also, its language features support various concepts in functional and aspect-oriented programming. At the same time, Python also features a dynamic type system and automatic memory management.We use several open source Python frameworks, libraries and development tools to curtail development time without increasing development cost.

**Some of the Python Applications are:-**

1. [Web Development](https://www.edureka.co/blog/python-applications/#web)
2. [Game Development](https://www.edureka.co/blog/python-applications/#game)
3. [Machine Learning and Artificial Intelligence](https://www.edureka.co/blog/python-applications/#mlai)
4. [Data Science and Data Visualization](https://www.edureka.co/blog/python-applications/#dsdv)
5. [Desktop GUI](https://www.edureka.co/blog/python-applications/#desk)
6. [Web Scraping Applications](https://www.edureka.co/blog/python-applications/#webs)
7. [Business Applications](https://www.edureka.co/blog/python-applications/#ba)
8. [Audio and Video Applications](https://www.edureka.co/blog/python-applications/#avapp)
9. [CAD Applications](https://www.edureka.co/blog/python-applications/#cad)
10. [Embedded Applications](https://www.edureka.co/blog/python-applications/#embedded)

**Some of Python libraries are:-**

1. Numpy
2. NLTK
3. Pandas
4. Matplotlib
5. Scipy
6. Scikit-learn