Python Analytics : Pre- Course Instructions

(updated upto Oct 2022)

[PPT for instructions is also available here..](#)

[Download and Install - Anaconda, Git, Git Desktop](#)	[Create Git ID](#)	[Create a blank repository in Git - oyAnalytics](#)

Knowledge which can help you during the Course
- Mathematical Background - Algebra, Geometry
- **Statistics Techniques**
- Business Process/Analysis (Domain wise)
- Some programming background (C/R/Python)
- Excel, SQL Techniques

Before Start (Always find the latest version of application, download and setup as ADMINISTRATOR; unless specified otherwise)

- Install Anaconda : https://www.anaconda.com/distribution/#download-section   (Windows or Mac) - 64 bit installer - (Check which OS you are installing)
    - https://www.anaconda.com/products/individual
        - https://repo.anaconda.com/archive/Anaconda3-2022.05-Windows-x86_64.exe
- Complete the Anaconda Setup : See these instructions in LMS.

Summary of Software to be downloaded and installed. If a new version is available, install that.

Setup Links

Software	URL	Latest version
Anaconda	https://www.anaconda.com/products/individual https://www.anaconda.com/products/individual#download-section https://repo.anaconda.com/archive/Anaconda3-2022.05-Windows-x86_64.exe	Windows - Python 3.9 • 64-Bit Graphical Installer • 594 MB
Git	https://git-scm.com/download/win https://github.com/git-for-windows/git/releases/download/v2.37.2.windows.2/Git-2.37.2.2-64-bit.exe	Windows - (48 MB) Git-2.37.2.2-64-bit

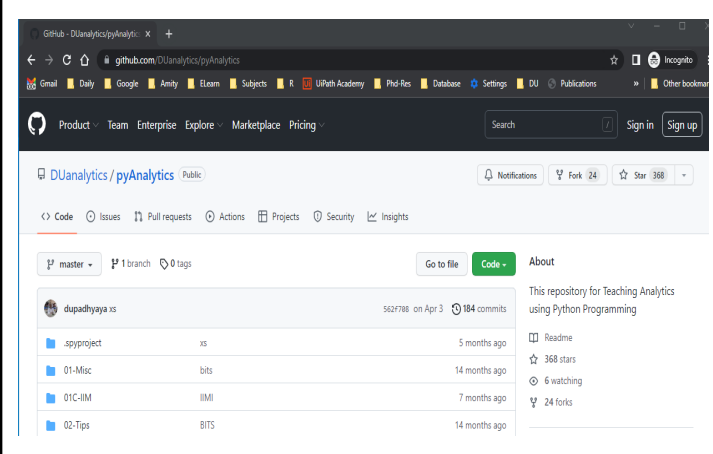|	(this is installed by default in Mac)	
Git Desktop	https://desktop.github.com/ https://central.github.com/deployments/desktop/desktop/latest/win32	Windows 3.0.6 (110 MB)
Java	https://www.java.com/en/download/	Ver 8 Update 311 (81.71 MB)

Always Install as Administrator

- **Online meetings app will be used.**
- **Meeting ID will be shared.**
- **Recording will be done and provided.**

Project Management (Recommended)

- Note : Mac Laptops already have Git and SVN installed. You may have to install some app depending upon existing configuration
- Signup for Git : https://github.com/ (verify with your email) and create your ID.
- **Follow** trainer Profile : https://github.com/xxxxxx (xxxx - trainers ID) (https://github.com/dupadhyaya)
- **Star the repository** which your trainer has specified (mark star after your login so u can easily access the repository) (https://github.com/DUanalytics/pyAnalytics)
- Other Setup Trainer will explain during class / Can refer to online PPT in LMS or Mind Map shared

LMS

- Login to LMS : site provided by HHE : https://lms.henryharvin.com/course/view.php?id=32
- Login ID - Will be shared on mail
- You will see courses where you have been enrolled.
- Complete the initial questionnaire asked for

Notes:

- Have your laptop fully charged
- Should have net connection central or mobile data
- Refresh your knowledge of Statistics and data manipulation in excel if learnt earlier
- For Online Classes preferably use headphones; can use your mobile for online video and laptop for practising the analytics work.
- You can give feedback at the end of each session (Conduct, Topics, Difficulties etc)
- Keep yourself updated with Course Schedule
- Mark your attendance Online (if asked)

Create Folder Structure in your Computer (This is for organising your Projects/ E-Content)

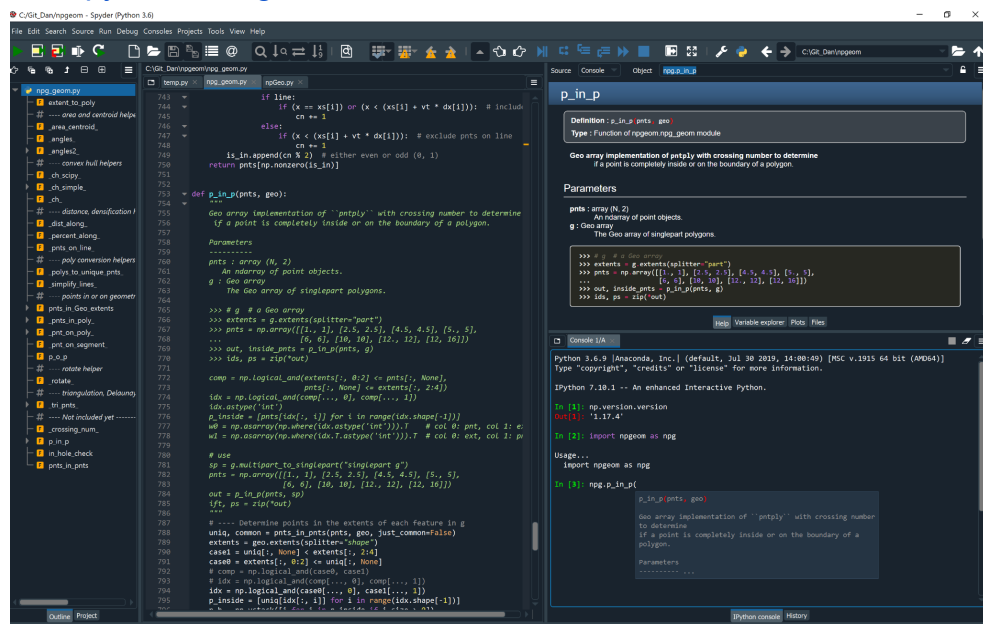|	
● E:/ (C or D Drive) ○ analytics ■ projects ■ ebooks ■ datasets ■ download	We will organise all our analytics work in these folders. If you don't have E drive, use C or D drives ● projects - save our repositories (all codes in folders) ● ebooks - all reference books/ cheat sheets ● datasets - all sample datasets from various sources ● Download - here you can save all your setup files - anaconda, git, git desktop etc

IDE for Python
- Jupyter
- Spyder (This will be mainly Used) :
  - https://www.spyder-ide.org/
  - https://docs.spyder-ide.org/current/index.html

Anaconda Installers

Windows ⊞	MacOS	Linux 🐧
Python 3.9	Python 3.9	Python 3.9
64-Bit Graphical Installer (510 MB)	64-Bit Graphical Installer (515 MB)	64-Bit (x86) Installer (581 MB)
32-Bit Graphical Installer (404 MB)	64-Bit Command Line Installer (508 MB)	64-Bit (Power8 and Power9) Installer (255 MB)
		64-Bit (AWS Graviton2 / ARM64) Installer (488 M)
		64-bit (Linux on IBM Z & LinuxONE) Installer (242 M)

Download for macOS

There are several options for installing Git on macOS. Note that any non-source distributions are provided by third parties, and may not be up to date with the latest source release.

Homebrew

Install homebrew if you don't already have it, then:

```
$ brew install git
```

Overview   Release Notes   Help

GitHub Desktop

Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.

Download for Windows (64bit)

Download for macOS or Windows (msi)
By downloading, you agree to the Open Source Applications Terms.

Anaconda for Mac OS	https://docs.anaconda.com/anaconda/install/mac-os/ https://www.anaconda.com/products/individual#Downloads https://repo.anaconda.com/archive/Anaconda3-2022.05-MacOSX-x86_64.pkg
Anaconda for Linux	https://repo.anaconda.com/archive/Anaconda3-2022.05-Linux-x86_64.sh
Git for Mac	https://git-scm.com/download/mac

Git Desktop for Mac	https://central.github.com/deployments/desktop/desktop/latest/darwin