

Git-hub Exercise

Business Data Analytics and Prediction (Foundations and Advanced) 2264. Part 1, Lesson 1

What is github

Github is used for code source sharing; both open source social sharing, as well as Joint group coding.

- See the movie on what is Github in: https://www.youtube.com/watch?v=w3jLJU7DT5E
- 2. Go to Github.com and search all github to open source solutions related to the business questions you are addressing
 - a. What was your search term?
 - b. How many open source repository you found?
 - c. How many of the repositories are in R?
 - d. How many of the repositories are in Python (and Jupyter notebook)? ___

Github online

To work with github you'll need a github account (like your Facebook or LinkedIn account) and to install locally Git Bash to manage the connectivity of your desktop to github online.

- 3. Create your github account (if you don't have one yet)
 - a. Go to www.github.com and login, or create your profile if you don't have one yet.
 - b. What is your user name for your git account? __
 - c. What is the email for your git account?
 - d. Update your user profile (e.g., add your photo)
- 4. Create a github repository named 'hello-wprld'
 - a. Click New Repository. (Green button on the right)
 - b. Name your repository 'hello-world'.

 - c. Write a short description.d. Select initialize this repository with a README.
 - e. Click Create Repository.
- 5. Edit your new repository README file
 - a. Click on the hello-world repository
 - b. Click on README.md (a text will appear below the files list)
 - c. Click on the **Edit** button (pencil icon)d. Make a change in the text

 - e. Click Commit changes
 - f. Go Back (or click on 'helo-world' in the top path)
- 6. Format the text
 - a. Edit README file
 - b. Format the text using formatting characters:
 - i. ====== makes the line above a title format with a line beneath
 - ii. # on beginning of line is heading 1
 - iii. ## on beginning of line is heading 2
 - c. See more formatting tips in: <a href="https://help.github.com/articles/basic-writing-and-formatting-and-form syntax/#styling-text

- 7. Add an Excel file to your repository
 - a. Click **Upload Files** (top button)
 - b. Drag the file you choose to upload
 - c. Click Commit changes
 - d. Go Back (or click on 'helo-world' in the top path)
- 8. Start the group project
 - a. Create one repository for your group
 - i. Share the repository link with all team members, and save it on your favorite links
 - ii. What is the repository link?
 - b. Edit the README for this repository with all group members names
 - c. Upload your data file(s) to this repository

Setup your desktop to communicate with github - one time actions

Each group member will have a copy of your project's repository on his desktop.

- 9. Install Git Bash from https://git-scm.com/downloads
 - a. If you had already git bash install, then update to latest version
- 10. Create a folder on your computer called GitHub, and below it create a folder with your group's name
- 11. Go to this new folder, right-click and select Git-Bash Here
 - a. If you have a command window opened you are all set.
- 12. Type the command: git --version
 - a. Which git version are you using?
- 13. Configure your user name and email, with the commands:
 - a. git config --global user.name "type_here_your_user_name"
 - b. git config --global user.email "type_here_your_email"
- 14. Clone the group project repository
 - a. Open your repository onlineb. Select Clone or download

 - c. Select Copy to repod. Go to your computer to the folder to which you would like to clone this repository. Right click and select Git bash here
 - e. Check that the prompt on the git bash is on the correct folder (you can change folders with the cd
 - f. Type the command **git clone** and then paste the address
 - g. Check that the repo appears as a folder where you cloned it

Ongoing wok on your project

The setup commands are done once. In ongoing you wish to get code from others, and to contribute your changes.

- 15. On the git bash command line check that you are on the project's directory
- 16. Each time you'll continue working on a project perform git pull to make sure you work on the latest version
 - a. Run the command git pull
- 17. Make your changes on your folder
 - a. For example, edit the README file with notepad, and save the changes into the file
- 18. Contribute your changes in the following order
 - a. git status #See all your changes and others changes
 - b. git add --all #or git add.
 - c. **git commit -m** "My message" #Make meaningful description
 - d. git push #Youll need to sign with your user name and password