Introduction to Big Data

Course setup

Upload a single PDF that includes screenshots confirming completion of the items below. Screenshots must show your name/username where applicable.

1. **GitHub account**
   (a) Create a GitHub account.
   (b) Screenshot: your GitHub profile page (showing your username).
2. **Git installed (no Git assignment yet)**
   (a) Install Git on your computer.
   (b) Screenshot: a terminal/PowerShell window showing `git --version`.
3. **Python installed and accessible from the command line**
   (a) Install Python (version 3.10+).
   (b) Screenshot: a terminal/PowerShell window showing `python --version`.
4. **R installed**
   (a) Install R (version 4.3+).
   (b) Screenshot: your R console showing `R.version.string`.
5. **IDE installed (choose at least one)**
   (a) Install at least one of the following: **RStudio**, **VS Code**, or **PyCharm (Community Edition is fine)**.
   (b) Screenshot: the IDE open on your computer.
6. **Cloud-synced course folder**
   (a) Create a folder for this course that is backed up and synced (Dropbox, Google Drive, OneDrive, etc.).
   (b) Screenshot: your file explorer showing the folder and the sync indicator (if available).
7. **Compression utility**
   (a) Ensure you can open `.zip` and `.gz`/`.tar.gz` files.
   (b) Windows users: install 7-Zip (or an equivalent tool).
   (c) Screenshot: a file explorer view showing a `.zip` (or `.tar.gz`) file opened/extracted.
8. **Jupyter installed (Notebook or Lab)**
   (a) Install Jupyter Notebook or JupyterLab.
   (b) Screenshot: a browser window showing Jupyter running (home page listing files is sufficient).
9. **SQLite tools installed**
   (a) Install SQLite.
   (b) Install a SQLite database browser (e.g., DB Browser for SQLite).
   (c) Screenshot: the database browser open (and, if possible, a `.db` file opened).
10. **IRB training (if you are not already certified)**
    (a) Complete the required human-subjects/IRB training for your program/university.
    (b) Screenshot: completion certificate or training record.

Interests / sign-up

During the semester, you will: (a) work on a group project, (b) lead a coding demonstration, and (c) lead a group discussion for the articles. Click this sentence to be redirected to the course sign-up google sheet.

11. On **Sheet 1**, list the week(s) of material you are most interested in.
12. On **Sheet 2**, select **one week** that you will lead the **coding demonstration**. It cannot be the same week you lead the article discussion.
13. On **Sheet 3**, select **one week** that you will lead the **article discussion**. It cannot be the same week you lead the coding demonstration.