

BMIS2542-Data Programming Essentials with Python
AY 2019-20 Spring

Assignment-2: Exploratory Data Analysis

Assignment-3: Practice 5MT Video

- *Due Dates:*
 - *Assignment-2: Feb. 26, 2020 at 5:30pm.*
 - *Assignment-3: March 04, 2020 at 5:30pm.*
 - *Submit your solution Notebook through Canvas.*
 - [*Pitt Academic Integrity rules*](#) apply for this assignment.
 - **Note:** While Assignment-2 can be done individually or in groups of 2 students, Assignment-3 must be done individually.
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Use any of the [pre-generated data files from the United States Environmental Protection Agency](#) for Assignments 2 and 3. Please make sure to go through the [descriptions](#) and background information to understand the context in which the data is collected and reported.

- Assignment-2: Exploratory Analysis
 - Come up with five analysis questions/investigative ideas relevant to your chosen data. Briefly explain why you find those questions interesting (bullet points would do).
 - Examine the patterns in data to answer your chosen questions. Illustrate with appropriate graphs.
 - **Note:** The assignment is purposefully open-ended to facilitate the creative exploration of data for evidence-based story telling. The 5MT Analytics Challenge will follow a similar style, so doing this assignment will be a good practice for you.
- Assignment-3: Practice 5MT Video
 - Use Assignment-2 as the context and create a five-minute video for presenting your data exploration story.
 - Refer to the syllabus for details about the video presentation required for the 5MT analytics challenge and follow the same guidelines for this assignment.
 - Tips for creating presentation video:
 - I recommend that students use Panopto for capturing their video.
 - Using PowerPoint slides to aid the narration is highly recommended.
 - Leaving the camera open during video capture would provide a personal touch to the recording.
 - Make sure that your voice is clear and audible in the video without distracting background noises.