World Happiness Index Analysis 2023 Sourcing & Analyzing Time Series Data

This final task will wrap up all of the work you’ve done during this Achievement. You’ll build a storyboard in Tableau (which you first learned how to do in Achievement 2) based on the data story you want to tell. As you’ve covered quite a lot of material in this Achievement, it’s up to you to decide which elements of your analysis to include in your storyboard.

You’ll also need to upload all of your work to Github and add it to your portfolio so your mentor can do a final review of your program portfolio.

**Directions**

**Part 1: Tableau Storyboard**

1. Think of what story you want to tell based on your complete analysis and key findings from this Achievement and create a business case by answering the guidance questions (who, what, when, where, and why) for your scenario.
2. Before creating your storyboard, create a plan for how you want to build it – how many story points it should include, what the message of each of them is, and what supporting visuals you’ll use.
   1. Include an introductory story point introducing your data and case.
   2. Start out with the exploratory analysis you conducted at the beginning of the Achievement. This served as your main guidelines for everything else you completed in the Achievement. You could also include some of your early research questions that guided you through your exploratory analysis.
   3. Pick out the hypothesis and/or a question you’ll explore and make this the pivot of your story.
   4. Show the results of the various analyses you conducted. These results don’t have to be valid – show them simply to provide evidence for why you chose a different approach, like the example in the Exercise.
   5. Include interpretations for each of your analyses’ results.
   6. Create a summary that states how your results are useful based on the initial research questions and hypothesis.
   7. Propose next steps for further analysis.
   8. Include some limitations of your study.
3. Create your storyboard.
   1. You may need to create additional visuals in Tableau to ensure the results are interpretable, the same as was done in the New Taipei City estate example storyboard.
4. Ensure that your storyboard adheres to the visual design best practices introduced in Exercise 2.2; visual Design Basics & Tableau.
5. Publish your storyboard to the Tableau Public serer and share a link with your mentor together with the project for the whole Achievement.
   1. Remember, Tableau Public is “public,” so be careful about posting any confidential data.

**Part 1: Bonus Task**

1. The CareerFoundry community contains a large number of UX and UI designers who have training ans expertise in visual design. As you’ve learned throughout this course, designing effective and accessible visuals is an essential part of data analysis. As such, why not share your storyboard on Slack to get some feedback from your peers training in these fields? The relevant channels are as follows:
2. Design and create a statregic or operation dashboard for users in the domain of your student project data. If you were working with real estate data, for example, you might consider designing an operational dashboard for real estate agents to use as a way of tracking where different properties are, which neighborhoods are popular, and more.

**Part 2: GitHub and Project Case Study**

To demonstrate the skills you’ve developed throughout this Achievement, upload your Python code to a GitHub repository.

1. Ensure your scripts for each Exercise are clearly names, well structured, contain useful informative comments, and have been organized into a logical folder structure (feel free to revisit Exercise 4.2: Jupyter Fundamentals & Python Data Types foe guidance on this).
2. The folder will need to contain your scripts and your data.
3. Create a GitHub repository for this project and drag and drop the folder you just created into it after selecting “upload file.”
   1. Remember, every subfolder will need to be population with a file for this to be successful.
   2. Make sure you’re using the correct file extensions.
4. Introduce your project and data in the README file repository:
   1. You can use your submission from Exercise 6.1: Sourcing Open Data to form the basis for this.
   2. Make sure your data source is cited correctly and add details of any other data sources you used, such as your shapefile and time series data.
   3. Include a link to your Tableau storyboard to take viewers to your analysis results. You can explain that this storyboard doesn’t contain every step you took as part of the analysis – only those relevant to the final results.
5. Turn your Achievement 6 project into a case study to add to your portfolio of project case studies from Exercise 5.8: Preparing a Data Analytics Portfolio. You’ll need to create a story) beginning, middle, and end) and include text, visuals, and links (to your Tableau storyboard and GitHub repo).
6. Export the slide as a PDF and submit the link to your final portfolio here for your mentor to review. Ensure they can easily access all the key deliverables for your Achievement 6 project.

**Part 2: Bonus Task**

If you found some interesting data throughout your data sourcing and analysis journey, why not use it for your next project? If you discovered a dataset you’d like to turn into a passion project, outline an initial plan for analysis.

This could also be an opportunity to ass a different type of deliverable to your portfolio – namely, an explanatory blog post you could post of GitHub. Explaining something to someone else is a really great way of making sure what you’ve learned “sticks.” It will also act as another portfolio piece you can use to show off your skills and understanding to potential employers.

What topic/procedure/approach have you found most interesting throughout the program? What data have you encountered that could be used to demonstrate this?