DSC 205 – Spring 2024

Final Project

Guidelines and helpful hints

- Final presentations will be held on 04.29 (in-person) and 05.01 (virtual). **Sign up for your presentation here no later than Friday 04.26.**
- Individual presentations are capped at 10 minutes, while team presentations are 15 minutes.
- For team presentation, all team members must participate.
- Create a PowerPoint / Google Slides presentation (4 slides total) that includes a title page (with team member names), a slide or two that describe the topic and the visualization goals you set out. It's important to provide your audience with a high-level view of your project before you demo your Streamlit app. After the demo, end your presentation with a slide that summarizes your main findings or observations.
- You're telling a story. Leave the audience with something to think about. The easiest way to lose your audience's interest is to read text from the slides or Streamlit app verbatim.
- Bring energy into your presentation. Your audience will not be interested in your project if you don't convey enthusiasm about your work.
- It's very easy to go over (or under) the allowed time. Rehearse your presentation and demo ahead of time. Move efficiently through your presentation, but don't rush.
- Presenters must have their cameras on for virtual presentations. If your computer doesn't have a webcam, sign up for a Monday slot.

What to submit (by 11:59pm on 05.01 – hard deadline)

- In Teams, submit the link to your GitHub repo (the same you used for building the Streamlit app in the cloud). The repo should contain:
    - Python code for your Streamlit app as well as any additional code you wrote for the project (pre-processing, etc.)
    - Copy or public links to datasets used in your Streamlit app.
    - PowerPoint / Google Slides presentation
    - One screenshot of your Streamlit app that includes your app's URL in Streamlit cloud.
- **A self-evaluation of your project**: Fill out the rubric below, compute your grade, and include comments that might help your instructor provide a more accurate evaluation of your work (e.g. particular challenges with the dataset that required far more time to pre-process the data than anticipated). Your evaluation will be taken into account when assigning final project grades.

DSC 205 – Final project evaluation (Spring 2024). Final presentations Mon 04.29 and Wed 05.01 3:25-4:40pm.

10 minutes for individual presentations, 15 minutes for teams. **Name:**

	Level of achievement					
Criteria	**Not evident (0)**	**Emerging (1)**	**Satisfactory (2)**	**Exemplary (3)**	**Score** 0 to 3 (0.5-point increments allowed)	**Weight**
Data visualization goals and dataset selection	Data visualizations questions vague and dataset not identified.	Data visualization questions **missing important details and focus** and/or dataset identified does not fully correspond to goals.	Data visualization goals are **mostly specified and focused** and dataset identified enables achievement of goals.	Data visualization goals **clear and compelling** and dataset identified enables achievement of goals.	2	3
Data preparation	No data preparation and cleaning performed	Data preparation and cleaning performed **minimal and/or not sufficient** to achieve project goals	Data preparation and cleaning performed **not trivial** and consistent with project goals	Data preparation and cleaning performed **requires significant effort** and is consistent with project goals	3	3
Data visualizations	Minimal or no data visualizations produced	Data visualizations produced **often** poorly labeled or **lack in variety and quantity** to achieve project goals	Data visualizations produced **generally** labeled and are **sufficient in variety and quantity** to achieve project goals	Data visualizations produced **consistently** labeled and are sufficient in variety and quantity to achieve project goals	2	5
Streamlit application	Streamlit application not developed	Streamlit application is not complete or does not include any interactive elements to enable the user to explore the dataset(s). **Application includes very limited descriptions of the visualizations and the project goals.**	Streamlit application is complete and includes some interactive elements to enable the user to explore the dataset(s). **Application includes text explanations of the visualizations and the project goals.**	Streamlit application is complete and includes several interactive elements that engage the user with the exploration of the dataset(s). **Application includes text explanations of the visualizations and the project goals.**	3	5
Streamlit cloud hosting	Streamlit application not hosted on Streamlit cloud		Streamlit application hosted on Streamlit cloud		2	2
Application of design principles (Gestalt principles, design guidelines, color maps)	No application of visualization design guidelines and principles.	Minimal application of visualization design guidelines and principles.	Visualization design guidelines and principles used are adequate to communicate content clearly.	Application of visualization design guidelines and principles greatly enhance visual content.	2	3
Visualization Walkthrough (4.22)	Did not present visualizations.	Visualizations limited or under-developed.	Visualizations for some primary goals are developed.	Visualizations for all goals are developed, but missing some minor refinements.	2	1
Final presentation: quality of verbal and non-verbal communication	Presentation not given	Speakers' voices is consistently too weak or too strong Speakers fail to use inflections to emphasize key points and create interest or speaker often uses inflections inappropriately Talking pace often too fast or too slow Transitions between speakers are somewhat choppy, confused	Speakers' voices are generally steady, strong and clear Speakers sometimes use inflections to emphasize key points and create interest Talking pace is generally appropriate Transitions between speakers are mostly smooth	Speakers' voices are very confident, steady, strong, and clear Speakers consistently uses inflections to emphasize key points or to create interest Talking pace is consistently appropriate Transitions between speakers are seamless	2.5	3
Final presentation (4.29 and 5.01)	Presentation not given.	Final presentation provides **somewhat vague** description of project goals and how the produced visualizations and Streamlit application achieves the goals. Data story not compelling or not consistently supported by visualizations and presentation contents.	Final presentation provides **generally clear** description of project goals and how the produced visualizations and Streamlit application achieves the goals. Data story engaging and mostly supported by visualizations and presentation contents.	Final presentation provides **clear and compelling** description of project goals and how the produced visualizations and Streamlit application achieves the goals. Data story compelling and fully supported by visualizations and presentation contents.	2.5	5

By 05.01: **Submit link to GitHub repo used for the Streamlit app in Teams. (Code and datasets)**	No submission by due date. **30-point deduction**				**TOTAL:72/88**	**~B+**

Score (max = 88): 72 Grade: B+

(Grading key: < 40: F, 40-49:D, 50-61: C, 62-73: B, 74-88: A)

Score is the sum of the products of individual scores with corresponding weights. Maximum score is the sum of the products of maximum scores with corresponding weights, excluding criteria marked as N/A.

Comments: