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MSA 8030 – Communicating with Data

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November 4, 2024











Week 4 –

Team Presentations: Present Your Use Case Selection Class Discussions: How To Pitch Your Data Science Solution



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Course Resources

Recommended textbook:

story telling with data - a data visualization guide for business

professionals, 1st edition

by Cole Nussbaumer Knaflic (Wiley)

Github site:

CommunicatingWithData

https://github.com/mjgrav2001/CommunicatingWithData





cole nussbaumer knaflic

storytelling

auide for

WILEY

professionals

with



Robinson

Georgia State
University: J. MACK
ROBINSON
COLLEGE
OF BUSINESS

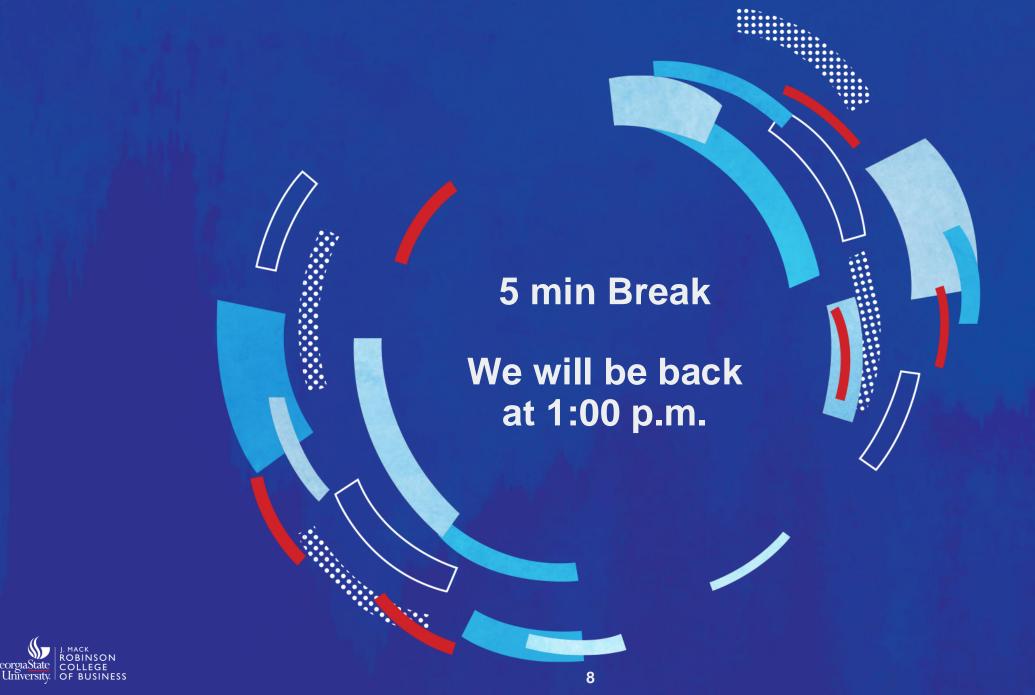
Team Presentations (45 min)

- **Team 1** Wine Quality dataset
- Team 2 Airline Delay and Cancellation dataset
- **Team 3** AirBnB (Kaggle) dataset
- **Team 4** Wine Quality dataset
- **Team 5 Microsoft Malware Prediction dataset**
- **Team 6** Water Potability of Plants dataset
- **Team 7 LAPD Crime dataset**

(presentations in no particular order!)







General idea:

- You want to first create a document with 6 paragraphs before you create your 1-min pitch.
- This document can serve as your speaker notes and as a first draft of your exec summary (Word).

NO JARGON or TECHY LANGUGAE. Your end customer needs to be able to understand this, even if they are not the ones who will read it. I use the 5th grader or grandma test. If they can understand this, so will your customers.

NO FLUFF. Keep it short and simple and expressive so no "more efficient" or "will be better" etc. language. SAY WHAT YOU MEAN like "it will improve throughput of customer 360 X amount". The pitch should fit on ONE page, with regular font and margins.

If you don't know exact numbers yet, how much improvement, how much cost/savings, etc. substitute "X" and fill it in after your Spike/Exploratory work or PoC (which would be your appendix).

NOW, LET'S CREATE THE FOLLOWING PARAGRAPHS IN A DOCUMENT IN THE ORDER SHOWN ...
(GO TO NEXT PAGE)



Paragraph Five (2 sentences):

Describe the Customer Experience.

Tell me a story. What is the customer journey like now, and what do you want it to be? Paint the story from the customer perspective. How will the customer discover and use your proposed solution? This needs to be compelling and this is the best place to show your passion for helping the customer.





Paragraph Two (3 Sentences):

Describe the Opportunity or Problem: The Setup:

WHO is the customer and what is the internal/external customer pain or what can they not take advantage of because there are missing pieces to deliver existing value?

DO NOT "bad mouth" an existing solution (that's a #1 mistake here).

Speak as if you are talking to a customer, what problem are you solving from their viewpoint?





Paragraph Four (2 sentences):

Capture the value provided to the customer: The WHY.

What's the value proposition, how will this make your customers FEEL or REACT to your business or solution?

What is the expected outcome to the customer if this solution goes through?





Paragraph Three (3 Sentences):

Explain the approach or solution: The Knockdown: The HOW.

How will the service/product/solution you are proposing solve for the problem in Paragraph 2? What are the usage scenarios and how will you address them.

In simple, customer-understood language.

This is not the place to outline your Features or technical blueprint (that can go in your appendix), think Epic or Agile Capability level.





Paragraph One (3 Sentences):

Summarize what the service/product is and what it provides to customers:

Should include launch/completion date, most important benefit/value to customer (internal/external), and costs.

DONT BURY THE LEAD. This is the most important paragraph.





Paragraph Six (1-2 sentences):

Call to action.

What are you asking for! Tell readers what is required to get started or progress.





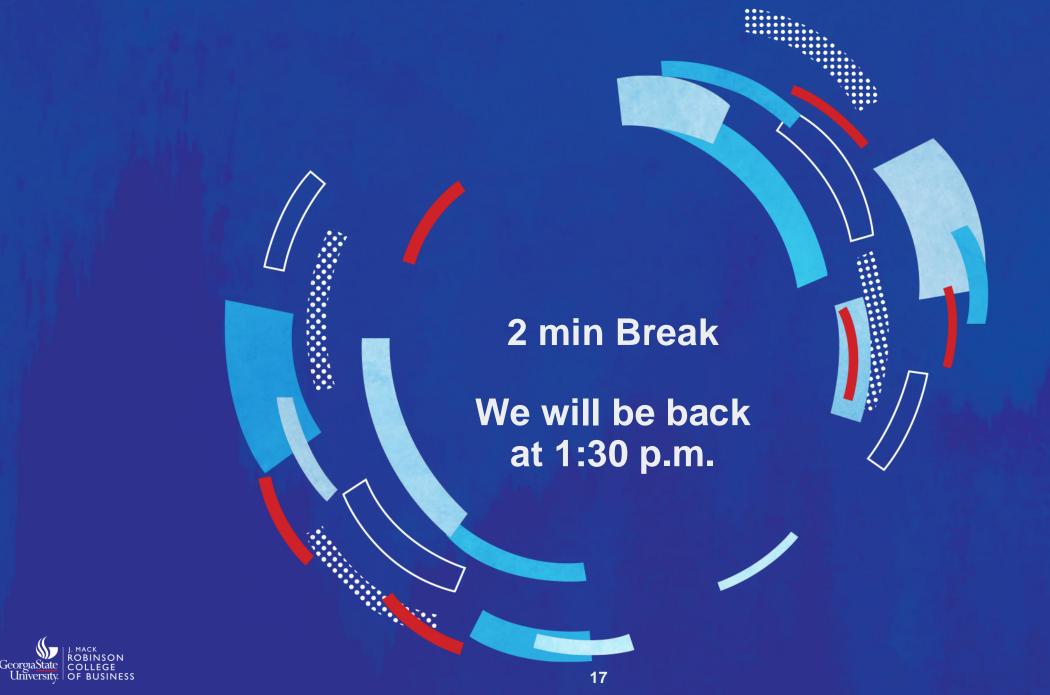
Your Very First Statement (1 sentence):

What is your product / service:

What product / service are you creating for the customer?







Group Activity (30 min): How To Pitch Your Data Science Solution

Brainstorm as a team on how to pitch your data science solution:

We will use the online 'Sticky notes' board from Lucid.

Each team pick a color!

Each team collect ideas on your sticky notes for each of the paragraphs you want to write (at home/offline) – you can 'divide and conquer' as a team if you like!

- Paragraph Five (2 sentences): **Describe the Customer Experience.**
- Paragraph Two (3 Sentences): Describe the Opportunity or Problem: The Setup.
- Paragraph Four (2 sentences): Capture the value provided to the customer: The WHY.
- Paragraph Three (3 Sentences): Explain the approach or solution: The Knockdown: The HOW.
- Paragraph One (3 Sentences): Summarize what the service/product is and what it provides to customers.
- Your Very First Statement (1 sentence): What is your product / service.



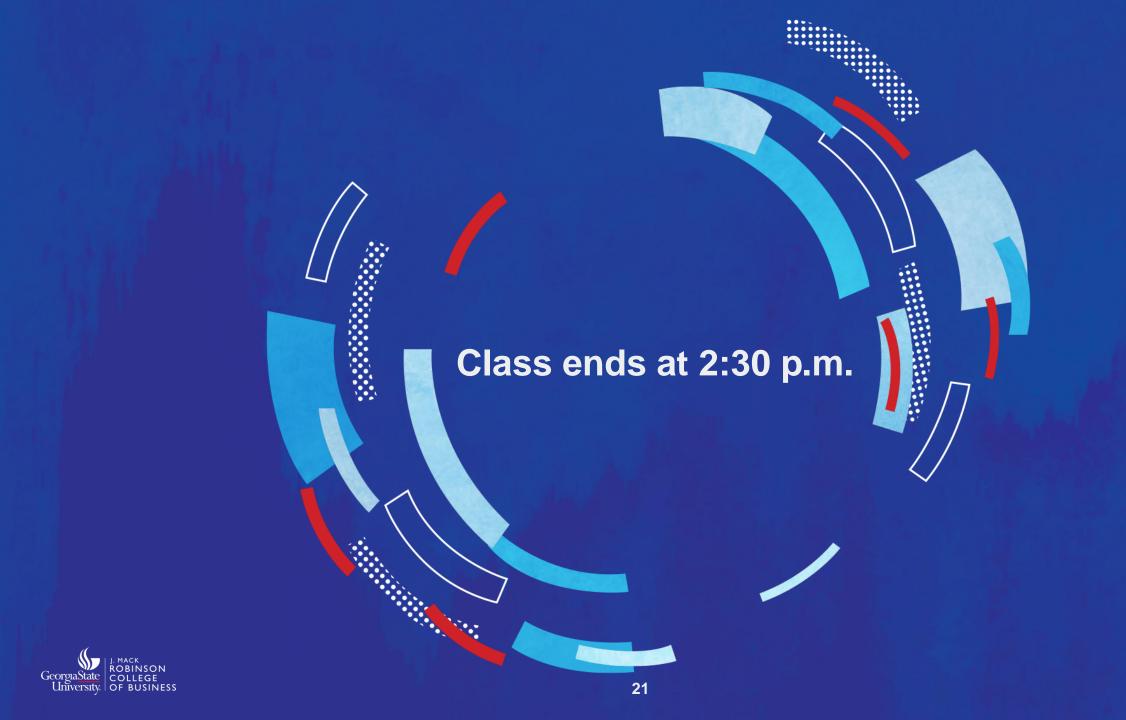




Lecture 2 (30 min): Storytelling With Data







Course Schedule

| # | Topic and Objectives |
|---|---|
| 1 | Intro & Getting Started |
| | • Course Overview (relevance, examples, etc.) |
| | Market-Ready-to-do List (MRTDL) by Career Advancement Center |
| | • Pick a dataset (Datasets will be provided by instructor on first day of class. If you |
| | already have formed a team of 4 students to collaborate and work together and |
| | want to use your own dataset, this needs to be vetted and approved by the |
| | instructor. Examples: something you are working on from another project, |
| | Walmart data on Kaggle, synthetic data from Synthea, etc.) |
| | • Explanation of peer-to-peer evaluation of presentations every week |
| | Instruction: Exploratory data analysis |
| | Assignment: Prepare 1-minute "describe your dataset" presentation |
| 2 | Start with Presentations: (present what was assigned in the previous class) |
| | Understand the Business (and core business processes) |
| | • Activity (for a specific case or example business): Describe the business for an |
| | example business (inputs, activities, outputs/metrics), develop a simple flowchart, |
| | identify opportunities |
| | • Instruction: Understanding the business problem, extracting the use case(s) |
| | • Assignment (for your selected business): Prepare 3-minute presentation that |
| | describes the business, core business process(es), and opportunities for your |
| | selected business |
| 3 | Start with Presentations: (present what was assigned in the previous class) |
| | Identify a Business Problem (and why it needs to be addressed) |
| | • Activity (for a specific case or example business problem): Developing persuasive |
| | arguments; Create tension with a visualization (draft) |
| | Instruction: Story telling with data - visualizations |
| | • Assignment (for your selected business problem): Create a 3-minute "tension" |
| | presentation; only 1 visual |





Course Schedule

| | Start with Presentations: (present what was assigned in the previous class) |
|---|--|
| 4 | Develop a Solution Pitch (for solving the identified business problem) Activity (for an example business problem): Big idea, exec summary, peer review Instruction: Feasibility study, selection of final use case (big idea) Assignment (for your selected business problem): Create a 1-minute pitch (includes business overview, tension, and solution) |
| | Start with Presentations: (present what was assigned in the previous class) |
| 5 | Provide a Progress Update (for an ongoing project) Activity (for your selected solution): Strong visualizations, exploration, status, revisions, issues, lessons learned Instruction: Data exploration and feedback loops with business stakeholders Assignment (for your selected solution): Prepare a 5-minute presentation; 5 slides (excluding title slide); 3 visualizations |
| | Start with Presentations: (present what was assigned in the previous class) |
| 6 | Planning a Final Presentation and Final Report (for a completed project) Activity (for your project): 1st draft of headlines only and main messages per slide; Python Notebook for technical audience and Word document for leadership: clear connections to final presentation, i.e., same structure/order, etc., including a narrative in the final report Instruction: Technical writing skills Assignment (for your project): Complete final presentation and reports; 7-minute presentation; 5-7 slides (excluding title slide); appendix if required |
| 7 | Final Presentations (and final reports, notebook and Word document) are due |



