UFORSE DATATHON 2021
Instruction & Itinerary

1.1 Datathon Timeline

Date	Event	Location
April 4th 10AM – 11AM	Uforse Datathon Orientation	Zoom Online
April 5th - April 15th	Mentorship Sessions & Office hours	Zoom Online
April 17th 10PM	Presentation Slides Submission	submit to: uforseeducation@gmail.com
April 18th	Datathon Presentation Day	Zoom Online

1.2 Introduction to the Case

As we adjust and have adapted to the 'New-Normal', our mobility outside of our homes has changed. We would like you to analyze how has this changed over a year to places such as retail and recreation stores, grocery and pharmacies, parks, transit stations, workplaces as well as residential. The data includes percentage change from baseline information for each country, with the baseline being the period before the pandemic hit.

The case questions will include questions that you would need to answer with data analysis and visuals with respect to, country with the most change from baseline, province within Canada with the most change to baseline, analyzing the change of behaviour during the lockdown on and off phases as well.

Feel free to combine any other data to provide any additional insights!

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1.3 Your Task

Questions:

1. Within Canada - the provinces that have demonstrated the most changes in mobility. How did these provinces act differently in different stages of lockdown and re-opening?

2. How does Canada fair when compared to other countries with respect to its outdoor visits and what is the top mobile country doing better than us? Any lessons to learn?

3. (Motivating to think out of the box and bring your own creativity) Can you combine any additional resources to provide us with a unique finding? That is, the company with increased door to door delivery services like Instacart?

Dataset Link:

Please review the dataset of Covid-19 Community Mobility via the link:
https://www.google.com/covid19/mobility/

Instructions:

1. Summarize the dataset. (Optional: You can run some descriptive statistics on the dataset.)
2. Graphs that help visualize the data. These can be bar charts, line graphs, histograms, pie charts, etc. Be sure the chosen graph represents the information you want to highlight.
3. Explain the story the data is telling you.
    - Provide a brief discussion of the findings.
    - If there are any unusual values, you can discuss them. (For example, if data values are out of range, you can delete the out-of-range values and run the analysis again.
    - Identify additional questions that the data is leading you to ask. What new attributes are needed to answer those questions?
4. Now that you have worked with the data, what is the data saying to you? What have you learned about the attributes? What are some follow-up questions you would like to answer?

Tips:

- Make sure you answer the asked questions clearly via a 10-12 min presentation highlighting your insights and data visualization of the same through captivating, interesting and easy to understand visuals.

- Gear up to answer any questions that the judging panel may have for you – The technique used, why, additional follow up related analysis.

- You and your team can utilize data analysis and data visualization tools as Tableau, Excel, R, Python, etc. It is not mandatory to utilize a specific tool to complete your data analysis. We encourage you to try out different tools and learn from them.

1.4 What to Submit:

- A presentation slide deck with your findings. (Make sure you add a title page with your team members' name on it.)

- Submit a single file with the following filename: <TeamNumber + Teamname>_Project.pptx or <TeamNumber + Teamname>_Project.pdf

- Submit your slides deck to: uforseeducation@gmail.com

1.5 Grading Rubric

Component	Weightage (%)	Due Date
Presentation	70	
PowerPoint Slides	20	10PM April 17th ,2021
Questions and Answers	10	

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1.6 Presentation Rubrics

	A-level (80-100)	B-level (70-79)	C-level (60-69)	Below C-Level (Less than 59)
Data Analysis (35%)	Skillfully uses data analysis tools to analyze and display data. Incorporates concise comments of data analysis output for clarity.	Uses appropriate tools to analyzes and display data. Includes concise comments that clarify data.	Uses tools to analyzes and display data. Includes some comments, but comments are not consistent.	Does not Use data analysis tools to analyze dataset. Does not comment on the data analysis output.
Data Visualization (35%)	Compelling use of data visualizations. Uses of graphs, charts and tables clearly demonstrate the main points being made.	Makes appropriate recommendations supported by logical reasons	Data visualization are useful for the level and type of analysis, but graphs, figures and tables do not clearly communicate significance of the results to the reader.	Data visualization are used minimally or not at all. If graphs, figures and tables are used, it is unclear what they are intended to communicate or why.
Slides Format (15%)	Assignment follows normal conventions of grammar and spelling and appropriate conventions of style and format that engages the reader	Assignment follows normal conventions of grammar and spelling and was carefully proofread. Appropriate conventions of style and format are used consistently.	Minimal errors in spelling, and grammar, and/or other writing conventions. Some transitions are choppy but not difficult to follow.	Frequent errors in spelling, grammar, and/or other writing conventions that distract the reader. Transitions are choppy and difficult to follow. Limited connection to the topic.
Q&A (15%)	Group invites Q&A confidently and appears coordinated in their approach to fielding questions. Support answers with reason and evidence.	Handles Q&A confidently with some supporting evidence.	Group appears somewhat disorganized with respect to fielding and answering questions.	Q&A poorly handled