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# STTHK3033 INFORMATION VISUALIZATION

# Individual Project (40%)

**Release Date:** **1st June 2025**

**Deadline:** **26th June 2025**

**INSTRUCTIONS**

1. For this final project, you must prepare a complete data visualization story based on the selected dataset. Your visualization will assist in decision-making and help you understand disaster risk management, current scenarios, and future planning (for example, landslide, politics, flood etc).
2. Select a dataset from:
   1. https://www.data.gov.my/ or,
   2. https://open.dosm.gov.my/ and,
   3. <https://scihub.copernicus.eu/> or,
   4. <https://www.usgs.gov/> ,
   5. any other open-source dataset.

The selected dataset should have a minimum of 4 variables.

1. You’re required to develop an interactive visualization for your project

(Please refer to this: https://drive.google.com/drive/folders/1Ej2Kgg0uBFSFuIV4amcceBQoBaOjJnis?usp=drive\_link)

1. Prepare the visualization tools (e.g., Google Analytics or MS PowerBI) or integrate them using (e.g., libraries, Seaborne, etc.) for an interactive visualization.
2. Submit the following files through UUM Online Learning (Due Date: **26th June 2025**)
3. Report that contains:
   1. Find and describe a dataset you’d like to visualize. The dataset must be publicly available (not proprietary) and have no strict licensing/usage restrictions. Briefly describe your dataset and state the source (URL address).
   2. Explain any tools to prepare an interactive visualization for image classification or graphics.
   3. Visualise your dataset using any of your preferred programming languages or tools, mention the tool name, and explain the visualization in your presentation slides.
   4. Prepare a report explaining your visualization and sharing the link to access your work (e.g., Github or any online drive).

**END OF INSTRUCTION**

**RUBRICS**

**STUDENT NAME:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Below Standard**  **(1-2)** | **Low Standard  (3-4)** | **Acceptable Standard (5-6)** | **Standard**  **(7-8)** | **Above Standard**  **(9-10)** |  |
| **Dataset Selection and Description** | The dataset is not publicly available or has restrictive licensing that limits its use. | The dataset is publicly available but may have minor licensing concerns that are not fully addressed. | The dataset is publicly available and has no licensing restrictions. | The dataset is publicly available and appropriately sourced with no licensing restrictions. | The dataset is publicly available and from a reputable source with no licensing restrictions. |  |
| The description of the dataset is very brief, incomplete, or unclear. | The description is somewhat clear but lacks detail or thoroughness. | The description is clear and provides a basic overview of the dataset. | The description is concise and provides a good overview of the dataset. | The thorough, clear, and concise description provides a comprehensive dataset overview. |  |
| **Interactive Visualization Quality** | The visualization lacks interactivity or is minimally interactive. | The visualization includes some interactive elements that are limited or not fully functional. | The visualization is interactive and uses appropriate tools or programming languages. | The visualization is interactive and effectively uses chosen tools or programming languages. | The visualization is highly interactive, utilizing advanced features of the chosen tools or programming languages. |  |
| The visualization is unclear, confusing, or difficult to interpret. | The visualization is somewhat clear but lacks depth and detail. | The visualization is clear and informative, representing the dataset adequately. | The visualization is clear, informative, and well-structured. | The visualization is exceptionally clear, informative, and visually appealing. |  |
| **Explanation and Presentation** | The explanation of the visualization is very brief, incomplete, or missing. | The explanation of the visualization is incomplete or lacks significant details. | The visualization explanation is complete but may lack depth or clarity in some areas. | The explanation of the visualization is thorough and easy to understand. | The explanation of the visualization is exceptionally thorough and very easy to understand. |  |
| The presentation slides are poorly organized or incomplete. | The presentation slides are poorly organized or lacking in detail. | The presentation slides are organized and cover the key elements (tool used, steps taken, insights gained). | The well-organized presentation slides clearly outline the tool used, the steps taken, and the insights gained. | The presentation slides are excellently organized, highly informative, and visually appealing. |  |
| **Report and Presentation** | The explanation of the visualization process, insights, and conclusions is very poor or absent. | The explanation provided is minimal and does not adequately cover the key aspects of the visualization. | The explanation covers the main aspects but might miss some details or clarity. | The explanation is thorough and covers all key aspects effectively. | The explanation is thorough, well-organized, and engaging, providing deep insights and a straightforward narrative. |  |
| No link is provided to access the work, or the link provided is non-functional. | A link is provided to access the work, but it may be difficult to find or not fully functional. | A functional link is provided to access the work, ensuring it is viewable but might not be prominently placed. | A clearly visible and functional link is provided to access the work, ensuring it is easily viewable. | A prominently placed, highly functional link is provided to access the work, ensuring it is easily viewable. The link may be accompanied by additional instructions or context to ensure accessibility further. |  |
| **Attitude and Ethics** | The student demonstrates unethical behavior, such as plagiarism or dishonesty. | The student's work may contain minor instances of unethical behavior, such as incomplete citations or improper use of sources. | Proper citations and references are provided, and there's no evidence of plagiarism or dishonesty. | Citations and references are thorough and accurate, demonstrating a high level of integrity. | The student's work exemplifies the highest ethical standards, with meticulous attention to detail in citations and references. |  |
| The student shows little engagement or enthusiasm for the task. | The student shows some engagement but lacks enthusiasm or commitment to the task. | The student displays a positive attitude and shows reasonable engagement with the task. | The student's attitude is consistently positive and enthusiastic. | The student's attitude is exceptionally positive and proactive. |  |
|  | | | | **TOTAL** | **CLO3** | **/100** |