**Data Analytics Week 2**

**Week 2:  
  
Tasks & Resources:-**

“Welcome to the Week 2 of PrepInsta’s Data Analytics Internship program.  In this module you will be working on creating a small creative game. You will find the task and resources both on this page.”

**Project 2: -**

Develop a simple game in Python, titled “Frog and Leap,” to showcase your programming skills and creativity. Your game should provide a fun and engaging user experience.

**Takeaway: -** This task not only assesses your programming skills but also encourages creativity and problem-solving.

**Pre-requisites**

* Basic knowledge of Python programming language.
* Familiarity with Python development environments (IDEs).

Note: - In case you want to revise the pre-reqs, just head over to the resources section for a quick brush up.

**What you need to do?**

Stuck with the project!! Don’t worry, we have all the steps covered for you.

1. **Game Concept:**

* Understand the concept of the Frog and Leap game by playing the reference game provided.
* Identify key elements such as player controls, game mechanics, and scoring.

1. **Python Setup:**

* Set up your Python development environment. Ensure you have the necessary tools, such as an integrated development environment (IDE) like VSCode or Jupyter Notebook.

1. **Coding Structure:**

* Plan the structure of your Python code, considering elements like classes, functions, and variables.
* Decide on the game’s core functionalities and how they will be implemented.

1. **Game Logic:**

* Develop the underlying game logic, including rules for winning, losing, and scoring.
* Ensure that the game provides a clear and enjoyable experience for the player.

1. **Testing and Debugging:**

* Test your game thoroughly to identify and fix any bugs or issues.
* Consider testing different scenarios to ensure the robustness of your code.

1. **Documentation:**

* Document your code, providing explanations for each function and variable.
* Include any external references or inspirations for your game.

**Points to Remember**

1. Regularly save your work to avoid data loss.
2. Experiment with different chart types and formatting options to enhance visual appeal.
3. Collaborate with peers and seek feedback to improve your dashboard design.
4. Emphasize clarity and simplicity in your visualizations to ensure easy interpretation.

Remember, the goal is to create a dashboard that not only looks good but effectively communicates important information about bike buyers’ behaviour.

Good luck!