{Use this .ipynb template to write the report, open it with Jupyter-lab}

## Lecture Notes/Tutorials by Dr. Bilgic @RIT

# Assignment-4: Static Data Visualization with Seaborn

**{Your Name Here - Add Teammates}**, ISTE-782, Spring 2023

## Summary

**Summary-Brief Summary Here: What insights and actionable analytics did you get from the visualizations with Seaborn** - *One short paragraph*

{Your paragraph here}

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**Your task and the instruction:**

- Take a look at this doc and read the instructions.
- Choose a dataset from seaborn package's repository.
- Based on your goal, do explaratory data analysis (eda) with visual components from, mainly, the Seaborn pack. It is ok to use other non-interactive visualization packs.
- You can use other packs to clean/organize data.
- Practice the visualization codes in the **first five Python Workshops**.
- Browse the seaborn gallery (it is in the seaborn workshop). Probably including **at least seven modern and multivariate plots** with **nice formatted** should be ok.
- Use Markdown to write a professional report that has topics, subtopics, table of contents, references, full sentences etc.
- Give a name to this .ipynb notebook for the report that includes your name and dataset name like {yusuf}-{iris}.
- Update/add topic titles, include Python codes and show in the report, remove my comments given in {}.
- Reflect the theories and methods learnt the course: we have all developed the cookbook so feel free to implement some.

- Once you finish the work, run all cells, save and export it as pdf. Your submission on myCourses will include both the .ipynb notebook and the pdf files. Export as pdf will require some packages (or, trick is to export as html, then make it pdf print).
- Make sure your pdf report shows all writing and visualizations.
- And **write the summary at the top** of what insights and actionable analytics you obtained from the visualizations with Seaborn.
- Missing any instruction here and in the doc will cause losing points.

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# Table of Contents



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# Introduction

- What aspect of the dataset you want to highlight?
- Include background and points of interests.
- Shortly, what is your goal in this report? EDA? or specific patterns you are looking for. Write in the beginning that will direct your work.
- Use modern and multivariate tools and graph choices with annotation, title etc.

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# Data Set

Choose a dataset from seaborn package's repository.

- First, read seaborn data sets
- Then, take a look at the github resource that host the datasets.
- Then, import the one (with at least 2 numeric, 2 categorical variables) you like using the code below.

In [13]:
```
# This chunk of code is for illustration.
# Select your own dataset, modify the code and import

import seaborn as sb
#import pandas
#import pandoc #you will need this installed and imported to generate pdf

iris=sb.load_dataset('iris')

iris.shape #just to check the dim of dataset
```

Out[13]:
```
(150, 5)
```

In [ ]:

In [ ]:

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# Data Visualizations

All codes and visualizations ARE here. Add comments or narratives.

In [ ]:

In [ ]:

In [ ]:

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# References

- {Add references}

In [ ]: