

# Project Milestone 1

## Independent Project Plan:

### **Week 1: Milestone 1 - Group Information and Communication/Work Plan**

- Start thinking of the Business Problem to address and how to address it
- Create an overall plan for each milestone (this document)
- Create Folder in Teams with First and Last name

To accomplish Milestone one, I will complete the Python/R refresher and then work on Milestone one. Working full time, I will get most of the course work completed during the weekends.

### **Week 2: Milestone 2 - Data Selection and Project Proposal**

- Select data
- Decide project topic/ business problem
- Create a project proposal
  - Introduce the problem
  - Discuss what will be required
  - Expected results or ultimate goal
- Find a project to review
- Complete peer review

Milestone two will be the most difficult for me. Throughout this Data Science Master's program I have struggled with developing my own business problems or topics. I believe the abstract nature of finding a problem to pair with the available free data is a pain point for me. In order to complete this milestone I will need to start early and evaluate my choices often.

### **Week 6: Milestone 3 – Preliminary Analysis**

- Start the preliminary analysis

This Data Science program seems to push Python more than R, since I am more familiar with Python I will more than likely use it for the analysis, I leave the door open though for the use of R. The EDA process could fit either in Milestone two or three in my opinion. I am unsure of where I will complete the EDA process.

## Week 8: Milestone 4 – Finalizing the Results

At this point in the course, the technical analysis should be completed. In milestone four I will be building a model providing the following.

- Explain the process for preparing the data
- Build and evaluate a model that works with the data to answer the question
- Interpret and explain the model
- Begin to formulate the conclusion of the project
- Think of the ethical implications of the project
- Complete the final paper by the end of the week (ideal)

Selecting a good model will be key, I will need to start early to have time to review multiple model and find one that works well.

## Week 10: Milestone 5 - Final Project Paper and Presentation

- Complete course presentation
- Course paper should be completed

My plan is to have the paper done before working on the presentation and slides. This will allow for a more thorough presentation.

### Schedule:

Week	Milestone	Task	MON	TUE	WED	THU	FRI	SAT	SUN
1	1	Craft rough project plan						x	x
1	1	Create Teams folder							x
2	2	Select data		x	x	x	x	x	x
2	2	Decide topic			x	x	x	x	x
2	2	Build project proposal						x	x
2		Peer Review				x	x	x	x
3-6		Work on Milestone 3		x	x	x	x	x	x
3-6		Peer Review			x	x	x	x	x
3-6	3	Preliminary analysis			x	x	x	x	x
6		Peer Review				x	x	x	x
6-8		Work on Milestone 4				x	x	x	x
6-8		Peer Review				x	x	x	x
6-8	4	Finalize Results			x	x	x	x	x
8		Peer Review				x	x	x	x
10		Work on Milestone 5				x	x	x	x
10	5	Course presentation					x	x	x
10	5	Course final paper				x	x	x	x
10		Peer Review				x	x	x	x

#### Final Notes:

Due to my work schedule and starting a new career with a new company, I anticipate that most of my course work will be done during the weekend. I will of course make every attempt to complete assignments during the week when I can. This will be a hectic time in my life but I'm dedicated to both building my career and completing my degree program.