

## Project

This project is **due Sunday, November 18th** at midnight in Canvas. Late projects will not be accepted.

### **Summary of project:**

You will be an analyst and obtain data (your choice) and provide short term forecasts using two of the forecasting methods described in class.

The forecast models should contain a description on what you are trying to forecast for. Provide a page of analysis on your findings. Your final project should reflect a project you are sending to your boss in hopes of a promotion.

### **Compile data:**

The data set you will use for this project is your choice. This is an opportunity for you to research something that interests you. You must provide the data set as part of your project.

There are many resources of data on the web. Make sure it is a reliable resource so you are not downloading a virus. If needed, you can input the data by hand into Excel if you are unsure of the source. A few are listed below.

1. page 43 in your book lists a few websites
2. data.gov – data sets on imports/aquaculture/USDA/EPA/education/employment/finance/business
3. wunderground.com – weather data
4. noaa.gov – search for ‘datasets’
5. stat.ufl.edu/~winner/datasets.html (may need to input data by hand)
6. census.gov
7. your choice

You must cite your data source. Use a workable size data set. You may need to take a snapshot of your data for this class as **you will want to use between 30 and 50 data points in your analysis.**

### **Describe the data:**

Provide any useful information on the data (brief description of the data, the data source, age of data, how data was obtained). Use descriptive statistics (mean, median, etc..) to describe your data set. Comment on the data set using these statistics. Create a chart that describes the data. (scatterplot, line graph, etc. ) to add insight. Decide if there are any outliers using any of the methods in the class.

### **Forecast:**

Decide what you are going to forecast and write it down.

Use two methods described in class to make forecasts. Compare the results of the two methods.

### **Error Analysis:**

Provide an error analysis (use methods described in class) that helped you decide which method is best to use. Support your decision.

### **Analysis:**

Provide analysis on your findings. Provide a conclusion of what the next steps your company hypothetically should make.