Capstone Projects  
Data Set 1 : Solar Flare Data Set

Aim: To Predict the class of the Flare

**Attribute Information:**

1. Code for class (modified Zurich class) (A,B,C,D,E,F,H)   
2. Code for largest spot size (X,R,S,A,H,K)   
3. Code for spot distribution (X,O,I,C)   
4. Activity (1 = reduced, 2 = unchanged)   
5. Evolution (1 = decay, 2 = no growth, 3 = growth)   
6. Previous 24 hour flare activity code (1 = nothing as big as an M1, 2 = one M1, 3 = more activity than one M1)   
7. Historically-complex (1 = Yes, 2 = No)   
8. Did region become historically complex on this pass across the sun's disk (1 = yes, 2 = no)   
9. Area (1 = small, 2 = large)   
10. Area of the largest spot (1 = <=5, 2 = >5)   
  
From all these predictors three classes of flares are predicted, which are represented in the last three columns.   
  
11. C-class flares production by this region in the following 24 hours (common flares); Number   
12. M-class flares production by this region in the following 24 hours (moderate flares); Number   
13. X-class flares production by this region in the following 24 hours (severe flares); Number

Link:<http://archive.ics.uci.edu/ml/datasets/Solar+Flare>

Data Set 2 : Website Phishing Data Set

Aim: To Predict if a website is phishing or legitimate website

**Attribute Information:**

URL Anchor   
Request URL   
SFH   
URL Length   
Having â€™@â€™   
Prefix/Suffix   
IP   
Sub Domain   
Web traffic   
Domain age   
Class

Link : <http://archive.ics.uci.edu/ml/datasets/Website+Phishing>

Data Set 3 : Dataset for ADL Recognition with Wrist-worn Accelerometer Data Set

Aim : Human Motion Modeling and Prediction

Recordings of 16 volunteers performing 14 Activities of Daily Living (ADL) while carrying a single wrist-worn tri-axial accelerometer.

**Attribute Information:**

Each file in the dataset follows the following naming convention:   
Accelerometer-[START\_TIME]-[ADL]-[VOLUNTEER]   
where:   
- [START\_TIME]: timestamp of the starting moment of the recording in the format [YYYY-MM-DD-HH-MM-SS]   
- [HMP]: name of the ADL performed in the recorded trial   
- [VOLUNTEER]: identification code of the volunteer performing the recorded motion in the format [gN] where:   
- 'g' indicates the gender of the volunteer (m -> male, f -> female)

- 'N' indicates the progressive number associated to the volunteer Each record of a file reports:   
- acceleration along the x axis of the accelerometer   
- acceleration along the y axis of the accelerometer   
- acceleration along the z axis of the accelerometer

**Link:**[**http://archive.ics.uci.edu/ml/datasets/Dataset+for+ADL+Recognition+with+Wrist-worn+Accelerometer**](http://archive.ics.uci.edu/ml/datasets/Dataset+for+ADL+Recognition+with+Wrist-worn+Accelerometer)