SAS Studio Code:

\*File Insert\*;

%web\_drop\_table(WORK.IMPORT);

FILENAME REFFILE '/home/u60653081/sasuser.v94/DisasterDeclarationsSummaries - clean.csv';

PROC IMPORT DATAFILE=REFFILE

DBMS=CSV

OUT=WORK.IMPORT;

GETNAMES=YES;

RUN;

PROC CONTENTS DATA=WORK.IMPORT; RUN;

%web\_open\_table(WORK.IMPORT);

\*\*\*\*\*\*\*\*\*\*\*;

\*summary stats\*;

title;

ods noproctitle;

ods graphics / imagemap=on;

proc stdize data=WORK.IMPORT method=mean out=work.\_ancova\_stdize;

var placeCode;

run;

proc glm data=work.\_ancova\_stdize;

class incidentType;

model incidentBeginDate=incidentType placeCode placeCode \* incidentType;

lsmeans incidentType / adjust=tukey pdiff alpha=.05;

quit;

proc delete data=work.\_ancova\_stdize;

run;

\*\*\*\*\*\*\*\*;

\*predictive regression model;

ods noproctitle;

ods graphics / imagemap=on;

proc glmselect data=WORK.IMPORT plots=(criterionpanel);

partition fraction(test=0.2);

class incidentType placeCode / param=glm;

model incidentBeginDate=incidentType placeCode / selection=stepwise

(select=sbc) hierarchy=single;

run;

\*\*\*\*\*\*\*\*\*\*;

\*correlation analysis\*;

ods noproctitle;

ods graphics / imagemap=on;

proc sort data=WORK.IMPORT out=Work.SortTempTableSorted;

by incidentType;

run;

proc corr data=Work.SortTempTableSorted pearson nosimple noprob plots=none;

var incidentBeginDate;

with placeCode;

partial fipsCountyCode fipsStateCode region;

by incidentType;

run;

proc delete data=Work.SortTempTableSorted;

run;

\*\*\*\*\*\*\*\*\*\*\*\*\*;

\*analysis of covariance\*;

title;

ods noproctitle;

ods graphics / imagemap=on;

proc stdize data=WORK.IMPORT method=mean out=work.\_ancova\_stdize;

var incidentBeginDate;

run;

proc glm data=work.\_ancova\_stdize;

class incidentType;

model fipsStateCode=incidentType incidentBeginDate incidentBeginDate \*

incidentType;

lsmeans incidentType / adjust=tukey pdiff alpha=.05;

quit;

proc delete data=work.\_ancova\_stdize;

run;

Jupyter Notebook Code:

import numpy as np

import pandas as pd

Disaster = pd.read\_csv('DisasterDeclarationsSummaries - clean.csv')

Disaster

Disaster.info()

print(Disaster.columns)

print(Disaster.dtypes)

print(Disaster.describe())