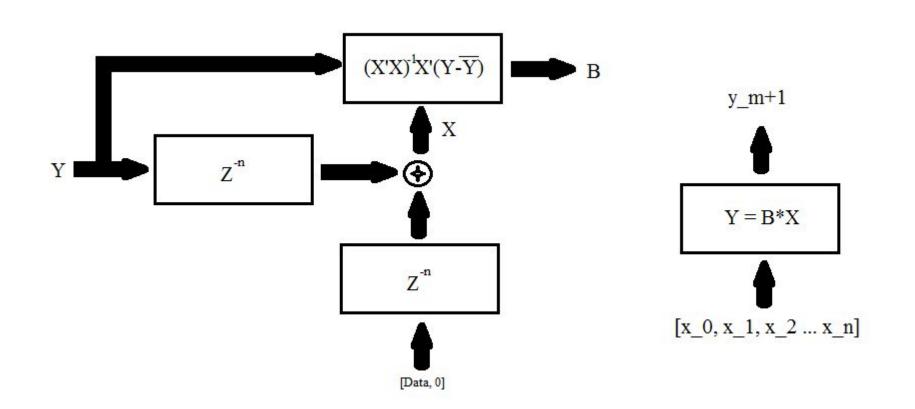
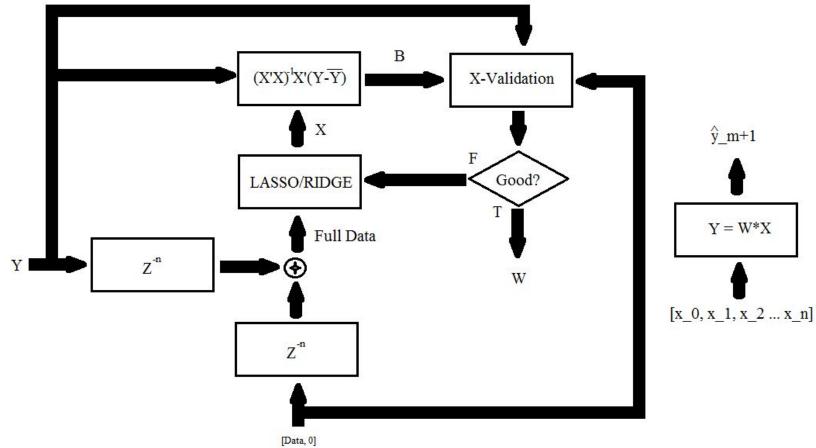
FORECASTING TEAM

Jeremy Garcia Travis Tanaka Makiko Kuwahara Keoni Davey

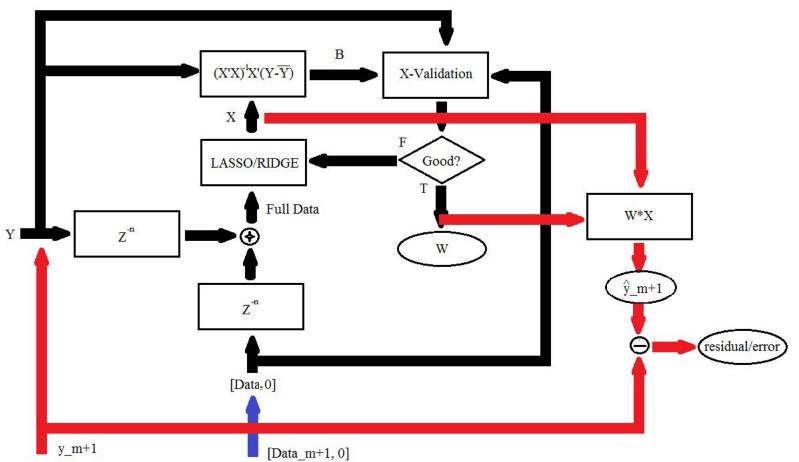
BLOCK DIAGRAM



BLOCK DIAGRAM



BLOCK DIAGRAM



PROGRESS

- The team has been learning iPython
- X weeks of tutorials.
- Went over the the proof

of linear regression

- Currently grabbing data

#Load Libraries from__future__import division import numpy as np import scipy as sp import matplotlib,pyplot as plt import seaborn as sns import pandas as pd from IPython.html.widgets import interact, fixed %matplotlib inline

#Load Linear Regression Library from sklearn.linear_model import LinearRegression

#Load data from UCI's Machine Learning Repository url = <u>'http://archive.ics.uci.edu/ml/machine-learning-</u> <u>databases/concrete/compressive/Concrete_Data.xls</u>' concrete = pd.read_excel(url)

#Make the X array x = [concrete[concrete.columns[1]], concrete[concrete.columns[2]], concrete[concrete.columns[3]], concrete[concrete.columns[4]], concrete[concrete.columns[5]], concrete[concrete.columns[6]], concrete[concrete.columns[7]]]

X = np.transpose(x)

#Make the Y array Y = concrete[concrete.columns[8]]

#Initiatiate our linear regression object model = LinearRegression(normalize = True)

#Load the X and Y array into the linear regression object model.fit(X, Y)

#Print the coefficent and intercept print "The coefficent are", model.coef_

#Print the intercept

FUTURE IDEAS/ THINGS TO BE DONE

- Learning more iPython!
- Fitting the current data
- Lasso/Ridging the data
- Going over the math proof for above
- Calculate for the unbiased variance

- Fully autonomous version?



PROBLEMS SO FAR

- Time meeting conflictions
- Midterms and other stuff

Slow and steady :D

