Using Google searches to track diseases dynamically

begin
%% Load data %%
CDC=load(CDC ILI Data)   (One column of values)
X=load(Google search Data)   (Multiple columns of values)

%% initialize output arrays %%
Y=zeros(1:end.of.predictions) (Initialize array to store predictions)
coefficients=zeros(1:end.of.predictions) (Initialize array to store coeffs)

%% train models and produce out-of-sample predictions %%
for i = training : end.of.predictions
    CDC $\leftarrow$ standardize(CDC)   (Perhaps use a transform:z-score, logit)
    X $\leftarrow$ standardize(X)   (Perhaps use a transform:z-score, logit)
    model=LASSOroutine.fit(CDC$[1:i] \sim$ X$[1:i]$) (Training: in-sample model)
    coefficients(i) $\leftarrow$ model(coefficients)
    Y($i+1$)=LASSOroutine.predict(model, X($i+1$)) (produce out-of-sample
                                             predictions)

    if(i == training)
        Y[1:i]=LASSOroutine.predict(model, X[1:i]) in -sample predictions
    end
end
end