function [normalized] = normalizeVector(raw\_vector)

%Returns a normalized vector for a continuous variables vector

cont\_vars = {'Num\_Theatres\_Widest', 'AdjustedBudget', 'sentiment', ...

'runtime', 'Google\_Trends', 'numNominatedActors', 'numWinningActors', 'totNumNom',...

'totNumWins', 'director\_nom', 'director\_win', 'total\_language'};

cont\_means = [2002.36 58.42 -0.059 108.99 3.13 1.12 0.38 1.68 0.4 0.13 0.03 1.51];

cont\_stdev = [163.11 57.88 0.64 18.60 6.21 1.32 0.67 2.28 0.733 0.48 0.19 0.92];

numCont = length(cont\_vars);

normalized = zeros(1, numCont);

for i=1:numCont

current\_feature = cont\_vars{i};

current\_val = movie(1, current\_feature);

normalized\_val = (current\_val - cont\_means(i))/cont\_stdev(i);

normalized(i) = normalized\_val;

end

end