

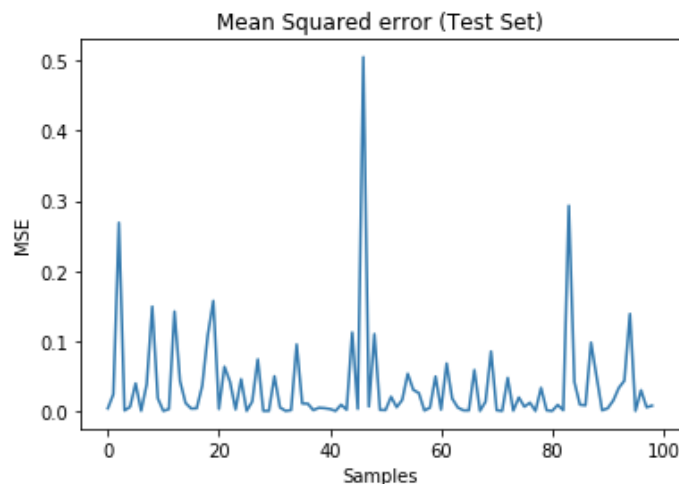
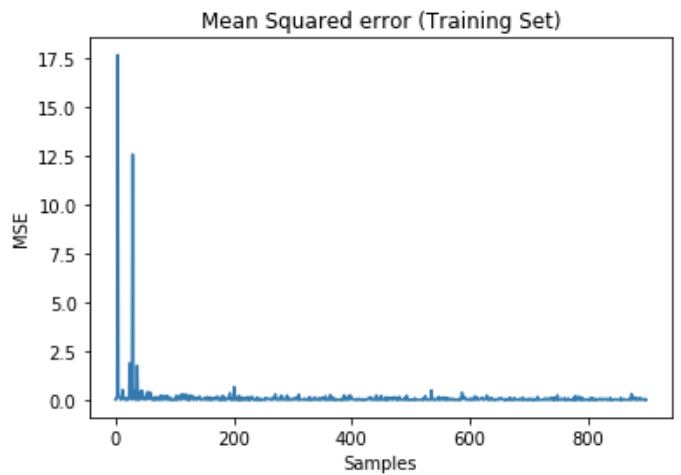
EE 599 – Lab 1

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The clean speech audio file – The Alchemist Audiobook - was downloaded through youtube-dl. White noise was used as the noisy audio file. SoX was used to mix and trim the two audio signals for preprocessing.

An LMS network was implemented using the clean speech audio file. A learning rate of 0.001 was used. The Mean Square Errors were observed and plotted for the training set as well as the test set.



As seen from the figures, the Mean Squared Error for the training set starts high and then goes closer to zero as the samples increase. However, the Mean Square Error of the test set is random and inconsequential. This points to a relatively unsuccessful prediction of the data.