**Machine Learning Engineer Nanodegree**

Capstone Proposal

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**Proposal**

**Domain Background**

**Problem Statement**

**Datasets and Inputs**

This project will use audios from the publicly available Speech Commands Data Set v0.01 dataset. This is a set of one-second .wav audio files, each containing a single spoken English word. These words are from a small set of commands, and are spoken by a variety of different speakers. The audio files are organized into folders based on the word they contain, and this data set is designed to help train simple machine learning model.

**Solution Statement**

**Benchmark Model**

**Evaluation Metrics**

The evaluation metric for the model will be transcription accuracy on the test audios in the dataset. Accuracy will be defined as correctly predicting the labels of the audios.

**Project Design**