**CSE 848: Project Proposal**

**Genetic Algorithm for Speech Enhancement**

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# Problem definition

Speech enhancement aims to improve the quality of speech with the use of various algorithms. The quality of speech can be defined in multiple ways for different applications, but the objective is usually to improve clarity, intelligibility, and pleasantness. This is typically accomplished by first identifying, then removing the background noise.

Speech enhancement has a large number of potential applications. One of which could include microphones in cars to make phone calls. Any road noise would want to be removed from the signal in order to focus on the voice of the driver. This project will focus on several speech clips in which background road noise has been added in order to simulate a person having a phone conversation through their car microphone.

The future findings of this project…

# Approach

## Genetic Algorithm Design

## Spectral Subtraction

## ??Other Algorithm??

# Previous art