

Understanding the Audio Classification Problem

Understanding the Problem

According to the National Crime Records Bureau, nearly 24,012 people die each day due to a delay in getting medical assistance. Many accident victims wait for help at the site, and a delay costs them their lives.

Understanding the Problem

Possible Solution:

Creating an automatic emergency vehicle detection system that detects an emergency vehicle prior to reaching the traffic signals and change the traffic signals accordingly.

Data Science Problem: Audio Classification

Objective: To build a model that classifies the audio into emergency or non emergency



Emergency Vehicle



Non Emergency Vehicle

Thank You

Break Audio into Chunks



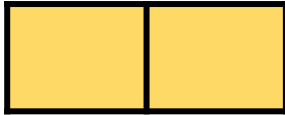
Audio Signal (7 seconds)

Break Audio into Chunks



Audio Signal (7 seconds)

Chunk 1

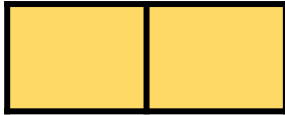


Break Audio into Chunks

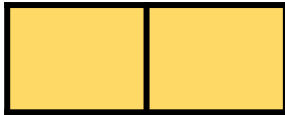


Audio Signal (7 seconds)

Chunk 1



Chunk 2

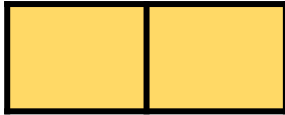


Break Audio into Chunks

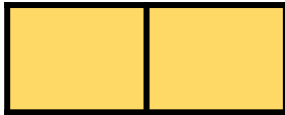


Audio Signal (7 seconds)

Chunk 1



Chunk 2



Chunk 3

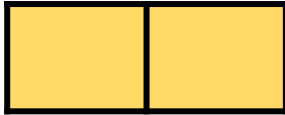


Break Audio into Chunks



Audio Signal (7 seconds)

Chunk 1



Chunk 4



Chunk 2



Chunk 3

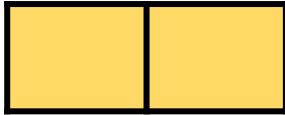


Break Audio into Chunks



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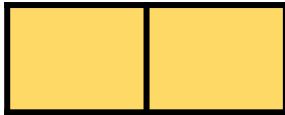
Chunk 1



Chunk 4



Chunk 2



Chunk 5



Chunk 3

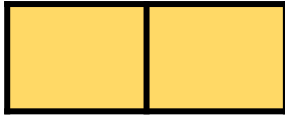


Break Audio into Chunks



Audio Signal (7 seconds)

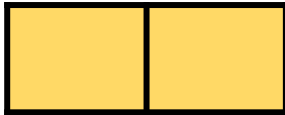
Chunk 1



Chunk 4



Chunk 2



Chunk 5



Chunk 3



Chunk 6

