Understanding the Audio Classification Problem

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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.

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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.

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Data Science Problem: Audio Classification

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

Emergency Vehicle

Non Emergency Vehicle

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Thank You

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Break Audio into Chunks

Audio Signal (7 seconds)

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

Chunk 2

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

Chunk 2

Chunk 3

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

Chunk 4

Chunk 2

Chunk 3

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

Chunk 2

Chunk 3

Chunk 4

Chunk 5

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Break Audio into Chunks

Audio Signal (7 seconds)

Chunk 1

Chunk 2

Chunk 3

Chunk 4

Chunk 5

Chunk 6

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