

## Building a dashboard for ESNet multiple data sources and visualizations

Date: 06/22/2020 Mentor: Mariam Kiran

Name: Divneet Kaur Freshman, UC San Diego

## **Problem Statement**



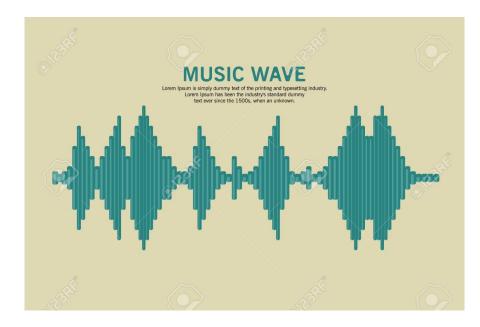
- Building Grafana plugin tools to enable connection to network databases
  - Exploring how to install Grafana
  - Connecting multiple network monitoring databases
  - Different ways of visualizing different datasets
    - Line and Bar graphs
    - Scatter Plots
    - Bar Gauge, Stats
    - Heatmaps



## Progress: First Week



- Working on a fun project to familiarize myself
  with
  Python
- Building a music tool for representing time-series datasets
- Code
  - Using Python's MIDI Library
  - Using algorithms to extract the beat, scale and time at which the note is to be played from the data



## **Next Step**



- Gain experience with python
- Finish the music project
  - Data points are to be used to get the note to be played
  - This will result in a .mid file consisting of pitch, velocity, duration
  - Use the .mid file to play audio
- Installing grafana
- Connect to multiple ESnet monitoring databases