

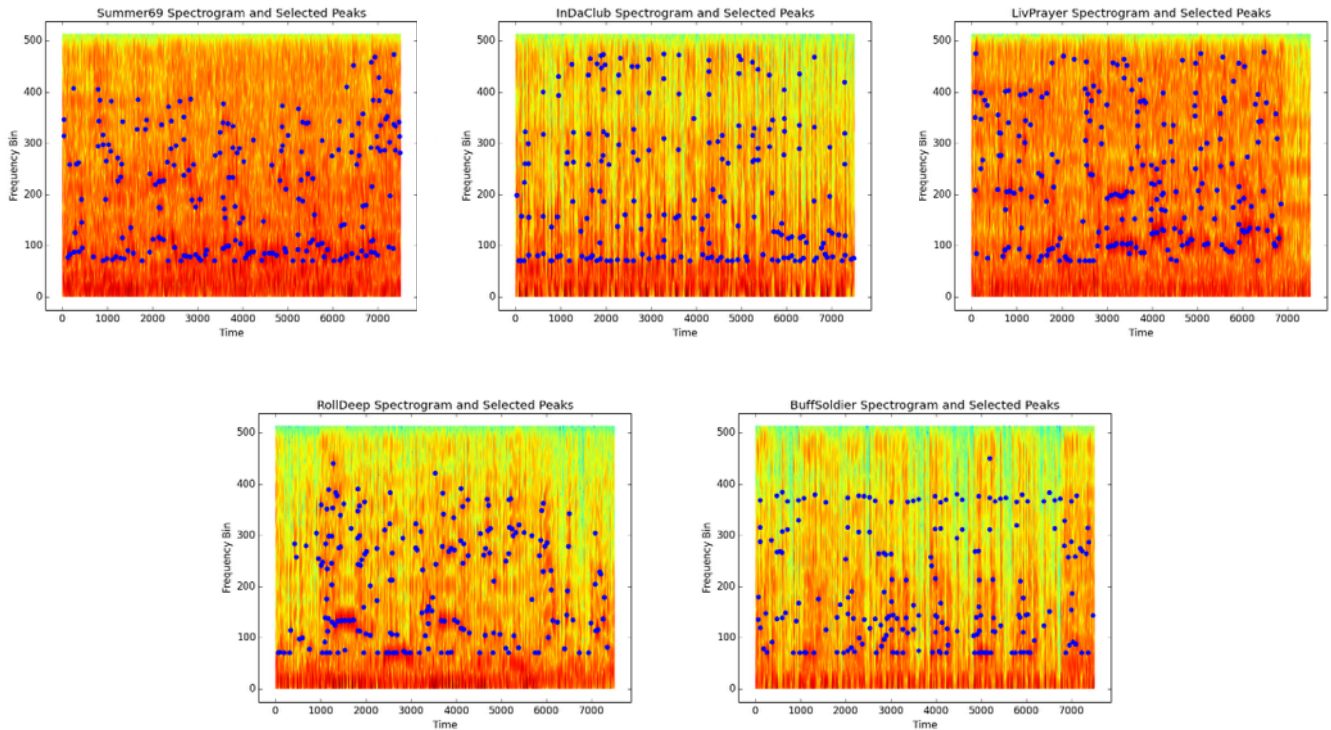
Music Identification Program Results (a.k.a. Shazam/Soundhound)

Bryant Moquist

Audio test files:

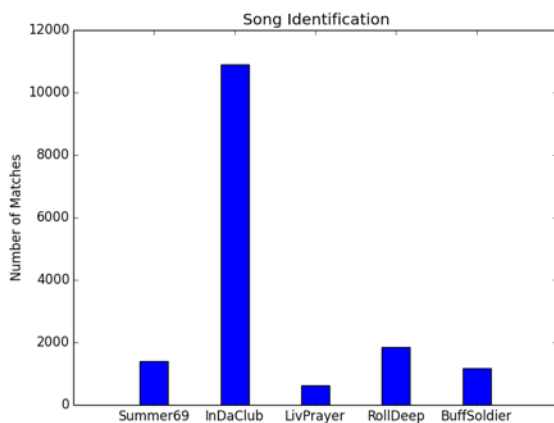
- Five 30 second song clips converted to 8000kHz .wav files
- Songs included: Rolling in the Deep by Adele, Buffalo Soldier by Bob Marley, In Da Club by 50 Cent, Living on a Prayer by Bon Jovi, and Summer of 69 by Bryan Adams

Song spectrograms and peaks in the 'Song Database':

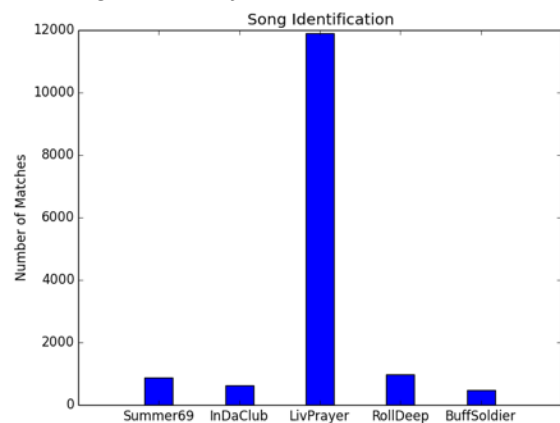


Comparing an identical song of same length with song database resulted in strong identification:

In Da Club selected and identified.

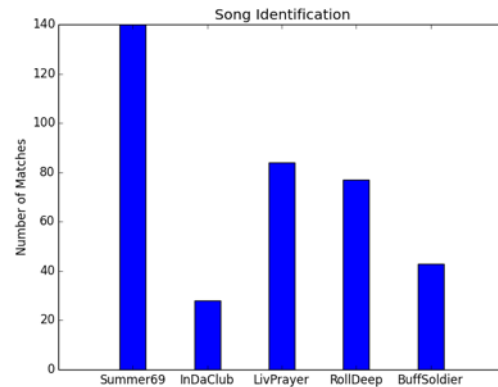
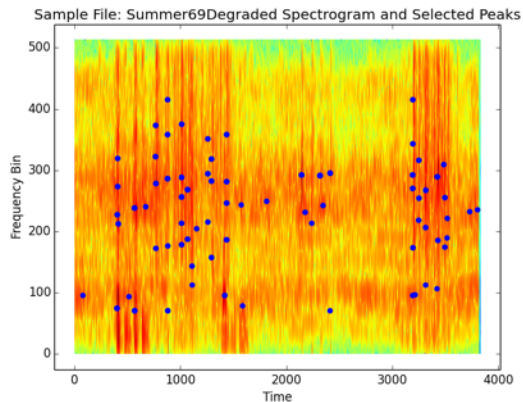


Living on a Prayer selected and identified.

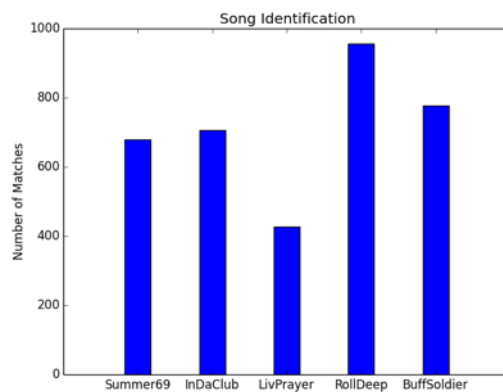
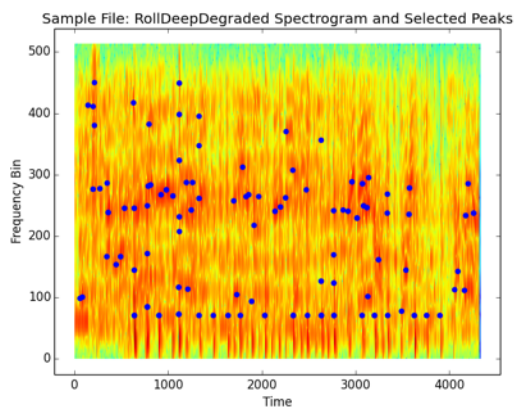


Using a shortened clip (approximately 15 seconds) of degraded quality (re-recorded through iPhone with foreground noise) had some success and failures depending on how degraded the clip was.

Summer of 69 successfully identified with degraded 15 second audio clip with human voices, paper crinkling, and finger snapping.



Rolling in the Deep successfully identified with degraded 17 second audio clip with thumping on a table.



In Da Club not successfully identified with degraded 16 second audio clip with human voice, loud paper rustling, and finger snapping.

