INFO 4871 Project Proposal

Spring 2019

Team name:	Drowzee					
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Date:	2/26/2019					
This is a revised proposal:	□ No, original proposal □ Yes, revised proposal					
Choose one project type:	□ Data + Evaluation □ Implementation augmentation □ Implementation					
FILL OUT THE APPROPRIATE S	ECTION BELOW FOR YOUR PROJECT					
	DATA + EVALUATION PROJECT					
Brief description of data:	Spotify SORT YOUR MUSIC					
	Nike+ Run Club Pacer's Running Mix					
	BACK SAVE NEW PLAYLIST S					
	Minimum BPM 0					
	# TITLE AFTIST RELEASE BPM ENERGY DANCE LOUD VALENCE LENGTH ACOUSTIC POP RND 1 Aftimation Mediature 2083-04 57 68 73 4 66 366 3 9 Mdf					
	2 Cont Mod (3) And Machinerous Rivers 2019:05:09 Mod 52 64 4 65 4:0 3 81 4700 Mod (2) Anni Control Con					
	Notice N					
	6 Restly - Red Sid Leaf Trappendes 2005-0740 001 64 71 -7 63 238 2 62 7500 7 Leaf-Side Zentramon 2005-0740 98 77 66 -4 50 237 51 27 995 8 Anti-North-Hall Leaf Trappendes 2005-0540 55 57 78 60 4 20 47 63 781					
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	U Sensimilaria - Mann Cose 2016-04-27 UN 68 69 -7 69 669 32 68 502 109 109 109 109 109 109 109 109 109 109					
	https://developer.spotify.com/documentation/web-api/reference/t					
	racks/get-several-audio-features/					
Data source:	Public Running Spotify Playlist:					
	http://sortyourmusic.playlistmachinery.com/					
Recommendation task:	Recommend an user with a specific type of playlist (i.e., running playlist) similar playlist or top-k songs based off of the features associated with the songs in their playlist.					

Algorithm(s):	LKPy's HPF and/or Implicit algorithms like, ALS and/or BPR.
Methodology:	Training Data: A set of user created playlist and the associated songs Test Data: A set of songs that could be added to a playlist
Evaluation metric:	For now just accuracy (MSE and RMSE) using k-fold cross validation and maybe if time allows test for coverage, novelty and serendipity