APHELION MUSIC

MUSIC GENRE CLASSIFICATION SYSTEM

We are a Mumbai based startup in the Music Industry aiming to redefine the music classfication in India, enabling recommendation and discovery engines to be optimized and personalized for each individual user

DISCUSSION FLOW

THE STARTUP DILEMMA
Understanding the problem

OUR PROCESS
Utilizing a data-driven approach

MODEL IMPLEMENTATION
Final product





Understanding The Problem

ANY GENERIC MUSIC STREAMING PLATFORM IS ESTIMATED TO HAVE ABOUT 70 M+ SONGS. THERE IS NEED TO AUTOMATE THE SYSTEM.

Market Analysis

COMPETITORS

Youtube Music, Spotify, Amazon Prime Music, Deezer

MARKET SIZE

USD 17.10 Billion in 2017, expected to reach USD 37.61 Billion by 2027, CAGR of 8.2% over the forecast period.



Utilizing a data-driven approach

Our software classifies the given music tracks into their respective music genres. We also engineered mood classification into our product. This enables recommender systems to group similar music and makes the musical journey of every user extraordinary!

DATA INPUT DATA FOR ALL RELEVANT FEATURES UNDER STUDY

DATA ANALYSIS

USING ESTABLISHED

TECHNIQUES TO PERFORM

DATA ANALYSIS

FINDING PATTERNS
FITTING MODEL TO DATA

PREDICTION

USING TRAINED MODEL

TO PREDICT STARTUP

SUCCESS

ML (MACHINE LEARNING)

Machine learning algorithms like SVM, Random forest,etc are used with the optimal parameters for them,

RNN (RECURRENT NEURAL NETWORK)

Connections between nodes form a directed or undirected graph along a temporal sequence

CNN (CONVOLUTIONAL NEURAL NETWORK)

CNNs are regularized versions of multilayer perceptrons where each neuron in one layer is connected to all neurons in the next layer

LSTM (LONG SHORT TERM MEMORY)

Artificial recurrent neural network (RNN) architecture with feedback connections

DATA AVAILABLE



70 M+ SONGS

Music Libraries



MFCC AND FEATURES EXTRACTED

200+ Features



TAGGED DATASETS

Big Datasets

Test Accuracies we achieve

ML CNN ANN LSTM

85.10 90.10 70.20 88.20

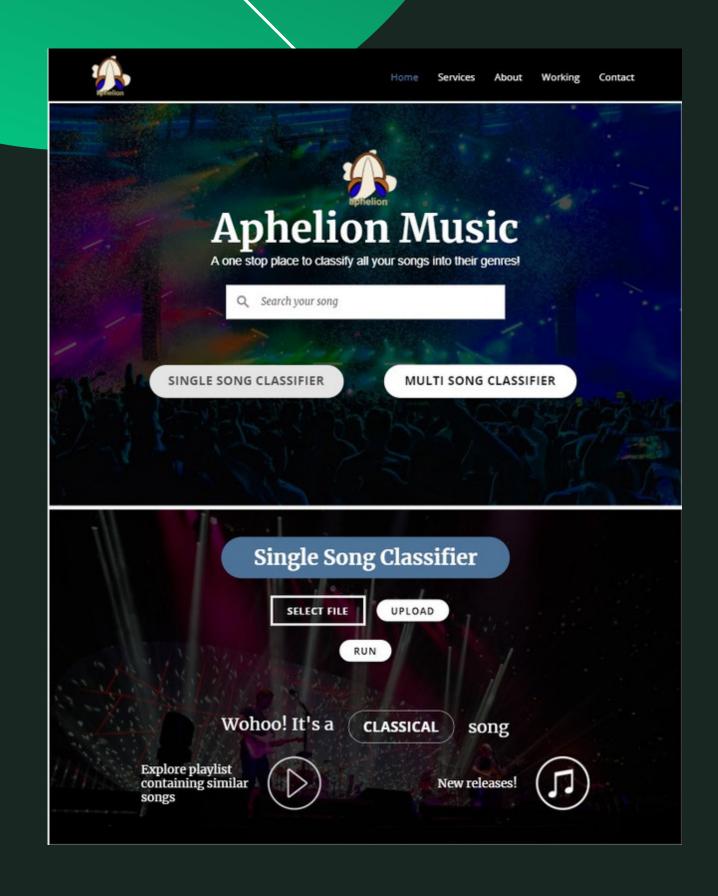


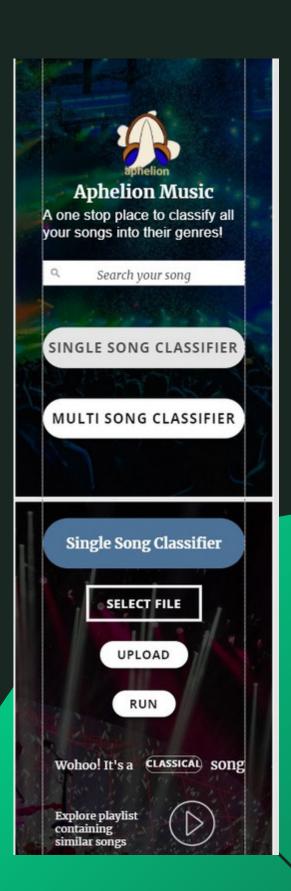


FINAL PRODUCT

APHELION MUSIC PLATFORM

OUR PROPOSED INTERFACE ON DESKTOP & MOBILE





Key App Features



High Accuracy (>90%) and clarity



Upload and Run Friendly Interface



Non-redundant feature covering large data



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