BH-PCMLAI

# Auto Tagging of Tracks

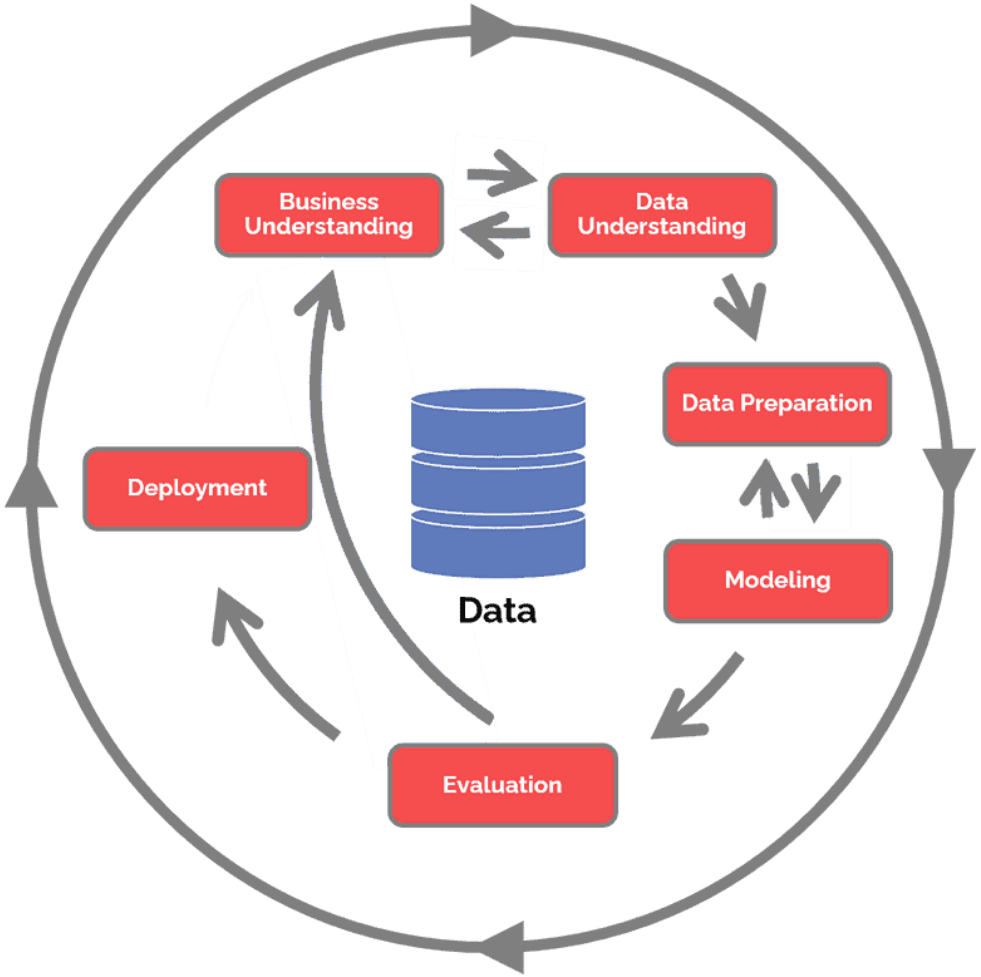
# Business Understanding

- **Music** and **Talk Shows** or **Podcasts** have been an essential aspect of all human civilizations. Music has power to emotionally, morally, and culturally affect society. Whereas Podcasts gives you the platform to raise awareness and create real social change, gain knowledge on various topics in-depth. Over past decaded the borders between music worlds have disappeared, credit goes to globalization.
- Given these conditions music streaming apps have seen tremendous rise in content/data.This results into tremendous work load for subject matter experts to classify / categorize tracks on basis of their content.
- **This is where AI can help to reduce human effort of auto labelling audio tracks on basis of audio features. This labelling can be further extended to improvise recommending content to users.**

**Research Question**

- *Creating a model that can be used to auto classify (categorize multi label) songs on basis of audio features.*

# CRISP-DM


Business Understanding
Data Understanding
Data Preparation
Modeling
Evaluation
Deployment
Data

# Shortcomings faced

- This is not a straightforward problem of single output, here a single input can have multiple output.
- Hence 2 different techniques are used OneVsRestClassifier and Multioutput classifier.
- Base techniques used are SVM – 16 % , Gaussian NB – 26 % , Decision Tree – 35 %.

# Further scope

- Tune model to get better performance.