Music Genre Classification

- 1. Problem Formulation
 - Clarifying questions

What is the genre of the given music? Should the model Recommend some music based on it? How will the user input the music? (file or link or name?)

- Use case(s) and business goal
 Help one's identity the genre of the songs
- Requirements

It should give genre of the music in 10-15 seconds
If not do something

Constraints

List of 10 genre
Only 1 genre of 1 song

Data: sources and availability

GTZAN, others?

Assumptions

Their is a genre of that music

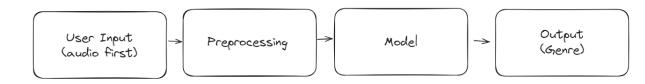
ML formulation

Classification

- 2. Metrics
 - Offline metrics

Acc

- Online metrics
- 3. Architectural Components
 - High level architecture



- 4. Data Collection and Preparation
 - Data needs
 - Data Sources

GTZAN

Data storage

Local

- ML Data types
- Labeling
- 5. Feature Engineering
 - Feature selection

Grid Searching

- o Feature representation
- o Feature preprocessing
- 6. Model Development and Offline Evaluation
 - Model selection
 - Dataset construction
 - Model Training
 - Model eval and HP tuning
 - Iterations
- 7. Prediction Service
- 8. Online Evaluation and Deployment