

**MUSIC RECOMMENDATION  
SYSTEM  
BASED ON ACOUSTIC FEATURES**

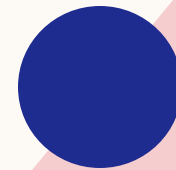
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# ASSIGNMENT OF DUTIES

Haowei Huang: Clustering methods, evaluation  
implementation, analysis and report

Qi Ren: System design & development, pipeline  
implementation, graphs and presentation

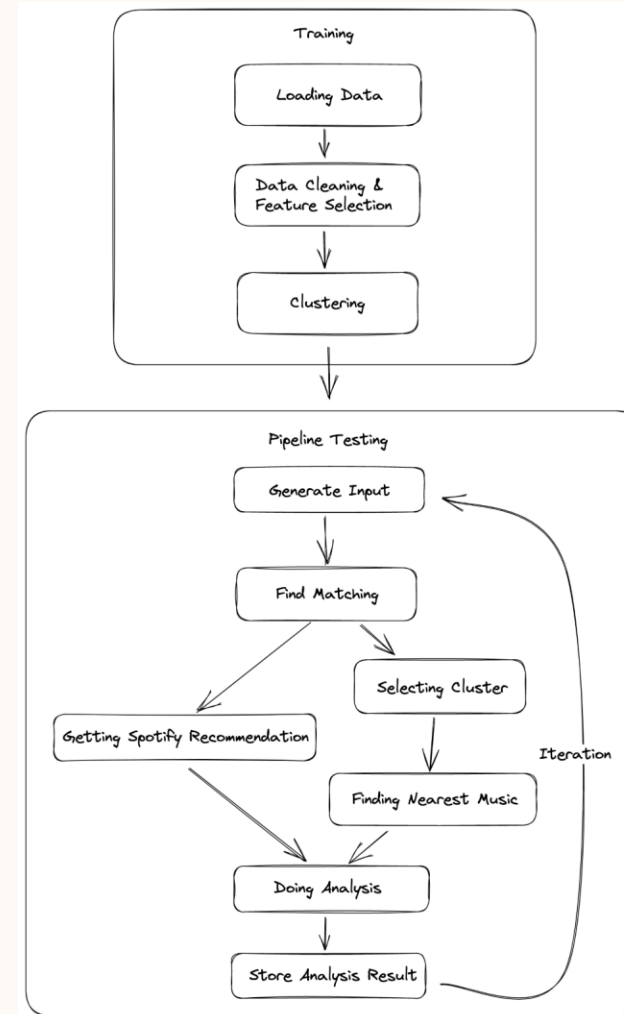


# **INTRODUCTION**

- Background
- Project Summary
- Related Method
- What's Interesting
- Problem Description

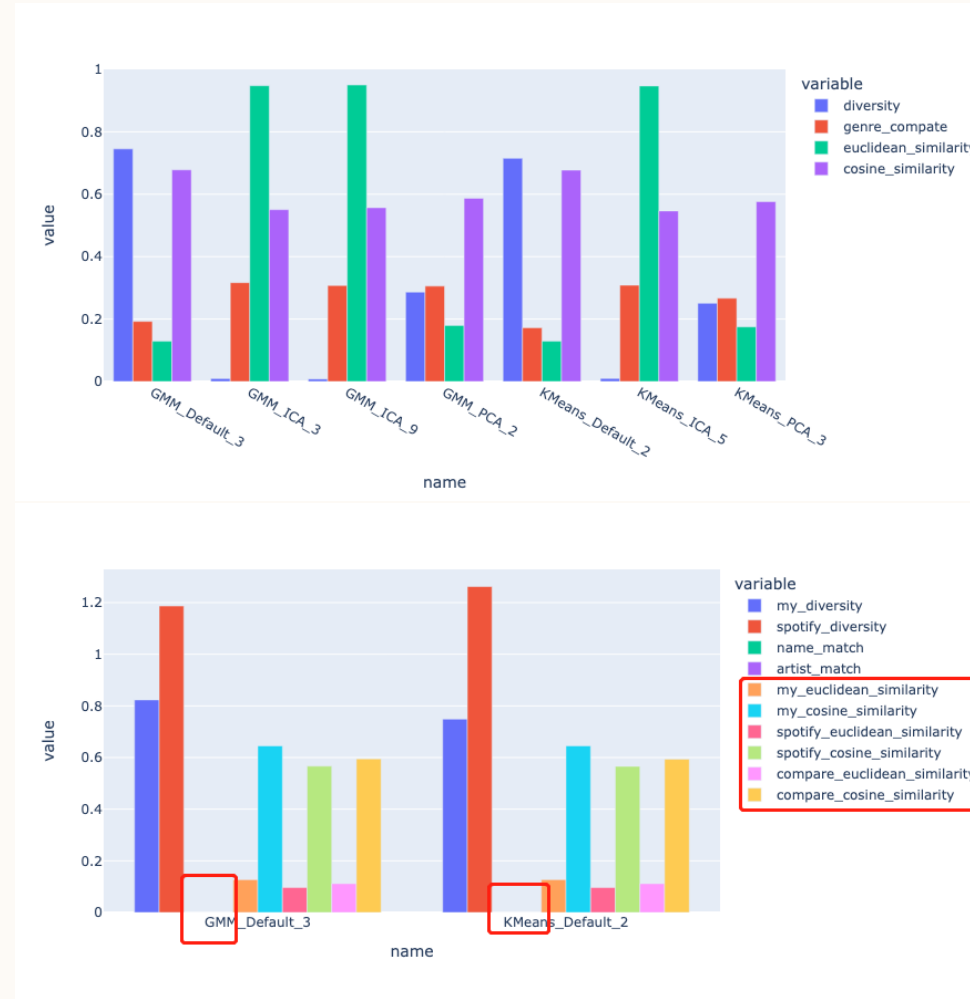
# METHODOLOGY

- Clustering
  - KMeans & GMM
  - PCA & ICA
- Finding Nearest Music
  - Cosine, Euclidean & Manhattan
- Making Recommendations
- Performance Evaluation
  - Genre Comparison
  - Diversity & Similarity
  - Spotify Recommendation Comparison



# EXPERIMENTS

- Pipeline Design  
Automatically applying different datasets, methods and algorithms
- Data Output  
Store data into csv files for further analysis
- Analysis  
Diversity  
Similarity  
Genre Comparison



## CONCLUSION & FUTURE WORKS

- What we have achieved
  - Model Design
  - Model Evaluation
- What to do next
  - Model Optimization
  - New Methodology (Weight)

# THANK YOU!

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feel free to contact us if you would like to send us coop offers :)