

# DT2470 Music Informatics Final Project

Matei Cananau	Arvid Ljung	Matej Priesol	Matei Cananau
MSc Machine Learning	MSc Machine Learning	MSc Machine Learning	MSc Machine Learning
<a href="mailto:cananau@kth.se">cananau@kth.se</a>	<a href="mailto:arvidlju@kth.se">arvidlju@kth.se</a>	<a href="mailto:priesol@kth.se">priesol@kth.se</a>	<a href="mailto:cananau@kth.se">cananau@kth.se</a>

October 2025

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>Feature Extraction</b>	<b>2</b>
<b>3</b>	<b>Modeling Methods</b>	<b>2</b>
<b>4</b>	<b>Evaluation</b>	<b>2</b>
<b>5</b>	<b>Conclusion</b>	<b>2</b>
	(Around 4-5 pages long)	

# 1 Introduction

Earlier this year, Apple Music introduced their new "AutoMix" feature, which automatically creates smooth transition mixes between songs in a playlist. [1]. No public information is available regarding the technical details of this feature, except that it uses Apple Intelligence to apply time stretching and beat matching techniques.

A few months later, Spotify launched their own audio mixing function, allowing users to manually create DJ-style transitions between tracks in their playlists from one tempo and key pairing into another [2].

This project attempts to achieve similar functionality by extracting features from audio tracks and using MIR techniques to create smooth transitions between songs.

## 2 Feature Extraction

## 3 Modeling Methods

[3]

## 4 Evaluation

## 5 Conclusion

## References

- [1] Apple. WWDC 2025 — June 9. Video; Timestamp: [00:30:47]. URL: [https://www.youtube.com/watch?v=0\\_DjDdfqtUE&t=1847s](https://www.youtube.com/watch?v=0_DjDdfqtUE&t=1847s).
- [2] Spotify. Mix Your Favorite Playlists Seamlessly by Adding Your Own Transitions. Spotify Newsroom press release, <https://newsroom.spotify.com/>, 2025. Published August 19, 2025. Accessed on 2025-10-21.
- [3] Len Vande Veire and Tijl De Bie. From raw audio to a seamless mix: creating an automated dj system for drum and bass. *EURASIP Journal on Audio, Speech, and Music Processing*, 2018(1):13, 2018. URL: <https://asmp-urasipjournals.springeropen.com/articles/10.1186/s13636-018-0134-8>, doi:10.1186/s13636-018-0134-8.