

# Spotify recommendation system and its flaws\*

Timon Lumír Fillo

Slovenská technická univerzita v Bratislave  
Fakulta informatiky a informačných technológií  
`xfillo@stuba.sk`

October 6, 2024

## Abstract

The digitalization of music has brought about a great change to the way we perceive and experience music, with companies such as Spotify, YouTube Music and Apple Music that offer online music streaming of millions of tracks for anyone that has access to the internet. This has made globalization of music possible and enabled artists to reach their target audience on the other side of the globe, which has in turn opened up new music markets all around the world and enabled even small artists to make a living from music production. All of this would not be possible without a recommendation system that can accurately categorize and find music that will satisfy the listener. While these systems provide relevant music recommendations, they come at the cost of indirectly altering the creative process of creators and limit creativity at the expense of generating income. This factor is mostly prevalent in trending music that is made specifically to exploit the recommendation system's inner workings with the aim of targeting a wider audience, earning revenue, and receiving more streams. This paper will explore what algorithms make up Spotify's recommendation system, how these algorithms affect the listeners, and how they affect the artists and record labels.

## 1 Introduction

Test na citáciu [1] ...

## 2 Spotify

...

## 3 Recommendation system

...

---

\*Semestrálny projekt v predmete Metódy inžinierskej práce, ak. rok 2024/25, vedenie: Mgr. Yevheniia Kataieva, PhD.

## 4 Genre representation

...

## 5 Conclusion

...

## References

- [1] T. Hodgson. Spotify and the democratisation of music. *Popular Music*, 40(1):1–17, 2021.