

## WAVEX Talent Discovery AI R&D Resources

WAVEX Talent Discovery / Hit Song Prediction AI development is currently in the research phase. The completion of this phase is planned for October 2022. The subsequent software development project should take no more than 2 months. The following studies and publications are being currently under research:

- 1) Predicting a Song's Path through the Billboard Hot 100  
Dated: December 12, 2015  
By: Cristian Cibils, Zachary Meza, Greg Ramel  
Stanford University, California  
[http://cs229.stanford.edu/proj2015/012\\_report.pdf](http://cs229.stanford.edu/proj2015/012_report.pdf)
  
- 2) Hit Song Prediction For Pop Music By Siamese CNN With Ranking Loss  
Dated: October 30, 2017  
By: Lang-Chi Yu\* , Yi-Hsuan Yang\* , Yun-Ning Hung\* , Yi-An Chen†  
MAC Lab, Research Center for Information Technology Innovation, Academia Sinica, Taiwan  
†Machine Learning Research Team, KKBOX Inc., Taiwan  
<https://arxiv.org/pdf/1710.10814.pdf>
  
- 3) Hitpredict: Predicting Hit Songs Using Spotify Data  
Dated: 2018  
STANFORD COMPUTER SCIENCE 229:  
MACHINE LEARNING  
By: Elena Georgieva,<sup>1</sup> Marcella Suta,<sup>2</sup> and Nicholas Burton<sup>2</sup>  
<http://cs229.stanford.edu/proj2018/report/16.pdf>
  
- 4) Dance Hit Song Prediction  
Dated: May 21, 2019  
aANT/OR, University of Antwerp Operations Research Group  
bApplied Data Mining Research Group,

University of Antwerp Prinsstraat 13, B-2000 Antwerp

By: Dorien Herremansa, David Martensb, and Kenneth Sørensen

<https://arxiv.org/pdf/1905.08076.pdf>

5) Predicting The Next Hit Song

Dated: August 19, 2019

By: Maël Fabien, Ph.D. Student @ Idiap/EPFL on ROXANNE

Part 1: <https://maelfabien.github.io/machinelearning/Explorium5/>

Part 2: <https://maelfabien.github.io/machinelearning/Explorium6/>

6) Song Hit Prediction: Predicting Billboard Hits Using Spotify Data

Dated: September 20, 2019

Department of Math & Statistics University of San Francisco San Francisco, CA 94117

By: Kai Middlebrook\* Kian Sheik

<https://arxiv.org/pdf/1908.08609.pdf>

7) Using Twitter to Predict Chart Position for Songs

Dated: May 6, 2020

By: Eleana Tsiara, Christos Tjortjis

[https://link.springer.com/chapter/10.1007/978-3-030-49161-1\\_6](https://link.springer.com/chapter/10.1007/978-3-030-49161-1_6)