

Project Proposal

Music Genre Based on Lyrics

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Abstract—Project And Problem overview (abstract) What are you planning to do? What is the task? Classification? Regression?

We aim to train a classifier to predict a song's genre based on its lyrics. The model will be trained and evaluated on a dataset of 380,000 song lyrics from Kaggle. However, we will extrapolate features from the lyrics with the support of Natural Language Processing techniques. For example, we will evaluate: line count, syllable count, rhyme frequency, amount of variation in rhyme scheme.

REFERENCES

- [1] H. Kopka and P. W. Daly, *A Guide to L^AT_EX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.

I. RELATED WORK

WHO has done something like what you plan to do? What did they try? How well did it work? This is an important section, so don't skimp here. Search Google Scholar to find related work.

<https://arxiv.org/pdf/1707.04678.pdf>

https://nlp.stanford.edu/courses/cs224n/2006/fp/sadovsky-x1n91224n_final_report.pdf

<http://worldcomp-proceedings.com/proc/p2016/DMI8052.pdf>

II. DATA DESCRIPTION AND SOURCE

THIS is very important! If you are not working with a pre-existing dataset, you must convince me that the data for your project exists and is easily accessible (e.g. can easily be scraped from a public website) Tell me what your features (attributes, columns of your data matrix X) will be.

III. PROPOSED PROJECT

Data, Algorithm, Evaluation... bunch of random algorithms...

IV. ESTIMATED TIMELINE

When will what be done etc...

V. DISTRIBUTION OF TASKS AMONG TEAM MEMBERS

Who does what