Thrasio
Machine Learning Assessment

Summary

- Problem: Can you classify electronic music? How well can you do?
- Dataset: https://www.kaggle.com/vicsuperman/prediction-of-music-genre
- Submission: notebook (.ipynb or .html) with all relevant code and results, along with a paragraph of self-assessment in the end.

Description

Problem Statement

Based on a set of audio features from Spotify, can you classify electronic music among other genres? How well can you do? How confident are you in your model?

Procedure

- In a Jupyter notebook/Google Colab notebook, perform the following steps:
    a. Load in the music dataset from the URL in the Summary section above
    b. Conduct necessary EDA and feature engineering
    c. Classify "Electronic" music among other genres
    d. Clearly display the model performance
    e. At the end of the notebook, describe in a few sentences (fewer than 250 words) how confident you are in your results and why
- Submit the notebook either in .ipynb or .html format. Please make sure all the code used is clearly visible in the notebook.

Requirements

- The usage of any packages/libraries is allowed, although AutoML libraries (like H2O) are discouraged.
- All user-defined functions/classes should be visible in the submitted notebook.
- This assessment should take approximately 1-2 hours to complete.