From Billboards to Grammy

Billocard HOT 100

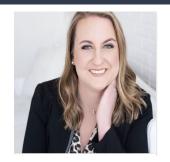


Team Five



HAYLEY GIMBEL

- NetSuite Consultant at NAPPJO
- Joined Data Analytics Course to gain understanding of basic coding & data analytics concepts



JENNIFER RATLIFF

Vice President Finance National Home Builder

Joined Data Analytics Course for a new challenge



MAYA JEFFERSON

Insert experience and job history
Insert reason for joining course



LIJOY JOMOL

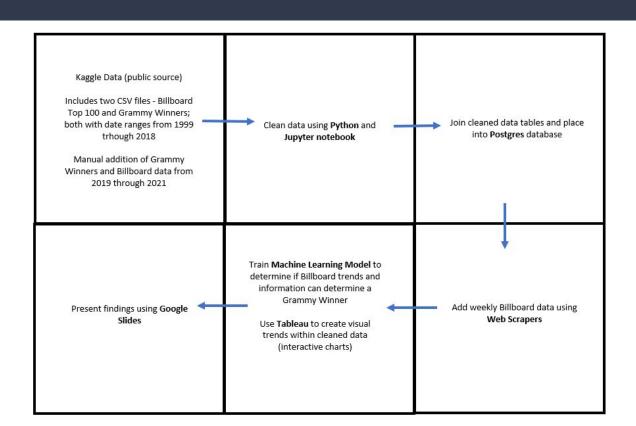
Certified Math Teacher

Joined Data Analytics Course for a career change.

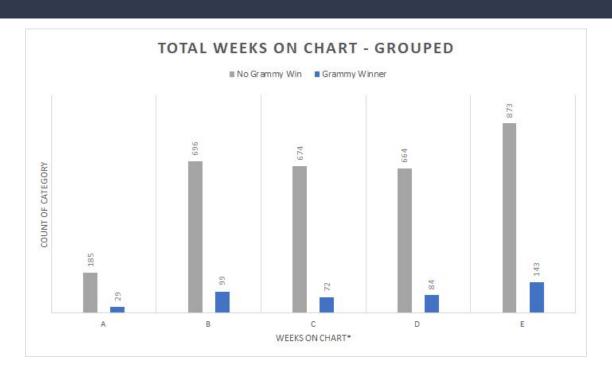
Purpose

- Determine if machine learning can identify Grammy winners based on
 - Weeks on Billboard Chart
 - Peak position on Billboard Chart
 - Age of song at time of nomination
- Selected topic due to team member work in music industry and data selection timeframe was during 2021 Grammy weekend
- Kaggle data included information for both Grammy winners and Billboard Top 100 from 1999 through 2018
 - Selected information from eight available tables
 - Specific tables chosen based on how final winners are selected (committee based)
 - Add new Billboard information with web scraper each week
 - Grammy winners added annually
- Data exploration Team used basic Excel analysis to understand general information and determine best path forward
- Data Analysis Team used Python with Jupyter notebook to clean files, combine tables, create basic charts, and determine options for machine learning

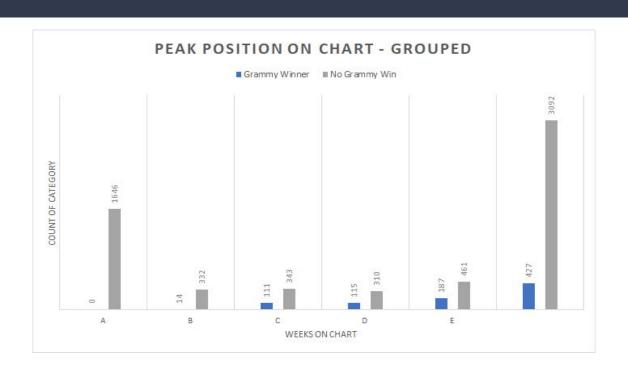
Project Dashboard



<u>Initial Analysis - Weeks on Chart</u>



Initial Analysis - Peak Position on Chart



Machine Learning - Grammy Prediction

The Machine learning model will provide data and charts once complete.

Model is still in training and final results are not available at this time.

Other factors (null hypothesis)

- What other factors could contribute to winning a Grammy?
 - o Genre
 - Release date of song (summer, winter)
 - Multiple artists
 - Combination of well known and lesser known

Next Steps

How to improve the model Additional features to include

Dashboard Link

https://public.tableau.com/profile/jomol#!/vizhome/BillboardtoGrammyDashboard/Dashboard2?publish=yes