| Table 1: Descriptive Statistics table of Final Project | |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Mean | SD | Min | Max | Description |  |
| Use in media | 3.95 | 4.97 | 0 | 30 | How many times the song has been featured in a movie or tv show. |  |
| Song length | 235.33 | 36.74 | 155 | 348 | How long the song is in seconds. |  |
| Gender |  |  |  |  | What gender the artist/band identifies as. |  |
| 1:Women | 0.30 |  |  |  | Artist's/band's gender identity is women |  |
| 2:Man | 0.48 |  |  |  | Artist's/band's gender identity is man |  |
| 5: genderfluid | 0.03 |  |  |  | Artist's/band's gender identity is genderfluid |  |
| 9: Mixed group | 0.19 |  |  |  | The gender identity of band's members vary |  |
| Pop |  |  |  |  | Does the song fall into the pop genre? |  |
| 1: yes | 0.59 |  |  |  | The song falls into the pop genre |  |
| 0: no | 0.41 |  |  |  | The song does not fall into the pop genre |  |
| Rock |  |  |  |  | Does the song fall into the rock genre? |  |
| 1: yes | 0.18 |  |  |  | The song falls into the rock genre |  |
| 0: no | 0.82 |  |  |  | The song does not fall into the rock genre |  |
| Rap |  |  |  |  | Does the song fall into the rap genre? |  |
| 1: yes | 0.16 |  |  |  | The song falls into the rap genre |  |
| 0: no | 0.84 |  |  |  | The song does not fall into the rap genre |  |
| Country |  |  |  |  | does the song fall into the country genre |  |
| 1: yes | 0.01 |  |  |  | The song falls into the country genre |  |
| 0: no | 0.99 |  |  |  | The song does not fall into the country genre |  |
| Hip Hop |  |  |  |  | Does the song fall into the hip hop genre? |  |
| 1: yes | 0.32 |  |  |  | The song falls into the hip hop genre |  |
| 0: no | 0.68 |  |  |  | The song does not fall into the hip hop genre |  |
| Alt. |  |  |  |  | Does the song fall into the alt. genre? |  |
| 1: yes | 0.20 |  |  |  | The song falls into the alt. genre |  |
| 0: no | 0.80 |  |  |  | The song does not fall into the alt. genre |  |
| Reggae |  |  |  |  | Does the song fall into the reggae genre? |  |
| 1: yes | 0.25 |  |  |  | The song falls into the reggae genre |  |
| 0: no | 0.75 |  |  |  | The song does not fall into the reggae genre |  |
| R&B |  |  |  |  | Does the song fall into the R&B genre? |  |
| 1: yes | 0.33 |  |  |  | The song falls into the R&B genre |  |
| 0: no | 0.67 |  |  |  | The song does not fall into the R&B genre |  |
| Sad |  |  |  |  | Does the song give off a sad emotional vibe? |  |
| 1: yes | 0.27 |  |  |  | The song gives off a sad emotional vibe |  |
| 0: no | 0.73 |  |  |  | The song does not give off a sad emotional vibe |  |
| Happy |  |  |  |  | Does the song give off a happy emotional vibe? |  |
| 1: yes | 0.37 |  |  |  | The song gives off a happy emotional vibe |  |
| 0: no | 0.63 |  |  |  | The song does not give off a happy emotional vibe |  |
| Angry |  |  |  |  | Does the song give off an angry emotional vibe? |  |
| 1: yes | 0.25 |  |  |  | The song gives off an angry emotional vibe |  |
| 0: no | 0.75 |  |  |  | The song does not give off an angry emotional vibe |  |
| Hopeful |  |  |  |  | Does the song give off a hopeful emotional vibe? |  |
| 1: yes | 0.34 |  |  |  | The song gives off a hopeful emotional vibe |  |
| 0: no | 0.66 |  |  |  | The song does not give off a hopeful emotional vibe |  |
| Fearful |  |  |  |  | Does the song give off a fearful emotional vibe? |  |
| 1: yes | 0.08 |  |  |  | The song gives off a fearful emotional vibe |  |
| 0: no | 0.92 |  |  |  | The song does not give off a fearful emotional vibe |  |
| Ashamed |  |  |  |  | Does the song give off an ashamed emotional vibe? |  |
| 1: yes | 0.08 |  |  |  | The song gives off a ashamed emotional vibe |  |
| 0: no | 0.92 |  |  |  | The song does not give off a ashamed emotional vibe |  |
| Desperation |  |  |  |  | Does the song give off a desperate emotional vibe? |  |
| 1: yes | 0.19 |  |  |  | The song gives off a desperate emotional vibe |  |
| 0: no | 0.81 |  |  |  | The song does not give off a desperate emotional vibe |  |
| Romantic |  |  |  |  | Does the song give off a romantic emotional vibe? |  |
| 1: yes | 0.37 |  |  |  | The song gives off a romantic emotional vibe |  |
| 0: no | 0.61 |  |  |  | The song does not give off a romantic emotional vibe |  |
| Grammy |  |  |  |  | Did the song receive an award from the Grammys? |  |
| 0: not nominated | 0.69 |  |  |  | The song was not nominated by this award show |  |
| 1: nominated, didn't win | 0.26 |  |  |  | The song was nominated, but did not win the award |  |
| 2: won | 0.05 |  |  |  | The song won the award |  |
| VMA |  |  |  |  | Did the song receive an award from the VMAs? |  |
| 0: not nominated | 0.88 |  |  |  | The song was not nominated by this award show |  |
| 1: nominated, didn't win | 0.12 |  |  |  | The song was nominated, but did not win the award |  |
| 2: won | 0.00 |  |  |  | The song won the award |  |
| MTV |  |  |  |  | Did the song receive an award from the MTV music awards? |  |
| 0: not nominated | 0.79 |  |  |  | The song was not nominated by this award show |  |
| 1: nominated, didn't win | 0.15 |  |  |  | The song was nominated, but did not win the award |  |
| 2: won | 0.06 |  |  |  | The song won the award |  |
| AMA |  |  |  |  | Did the song receive an award from the AMAs? |  |
| 0: not nominated | 0.96 |  |  |  | The song was not nominated by this award show |  |
| 1: nominated, didn't win | 0.03 |  |  |  | The song was nominated, but did not win the award |  |
| 2: won | 0.01 |  |  |  | The song won the award |  |
| Billboard Music Award |  |  |  |  | Did the song receive an award from the Billboard Music Awards? |  |
| 0: not nominated | 0.89 |  |  |  | The song was not nominated by this award show |  |
| 1: nominated, didn't win | 0.08 |  |  |  | The song was nominated, but did not win the award |  |
| 2: won | 0.03 |  |  |  | The song won the award |  |
| key: |  |  |  |  | What key was the start of the song played in? |  |
| A | 0.05 |  |  |  | The start of the song was played in A |  |
| B | 0.08 |  |  |  | The start of the song was played in B |  |
| C | 0.08 |  |  |  | The start of the song was played in C |  |
| D | 0.04 |  |  |  | The start of the song was played in D |  |
| E | 0.07 |  |  |  | The start of the song was played in E |  |
| F | 0.10 |  |  |  | The start of the song was played in F |  |
| G | 0.08 |  |  |  | The start of the song was played in G |  |
| A♭ | 0.08 |  |  |  | The start of the song was played in A♭ |  |
| B♭ | 0.13 |  |  |  | The start of the song was played in B♭ |  |
| C♭ | 0.01 |  |  |  | The start of the song was played in C♭ |  |
| D♭ | 0.18 |  |  |  | The start of the song was played in D♭ |  |
| E♭ | 0.03 |  |  |  | The start of the song was played in E♭ |  |
| F♭ | 0.00 |  |  |  | The start of the song was played in F♭ |  |
| G♭ | 0.08 |  |  |  | The start of the song was played in G♭ |  |
| A# | 0.00 |  |  |  | The start of the song was played in A# |  |
| B# | 0.00 |  |  |  | The start of the song was played in B# |  |
| C# | 0.00 |  |  |  | The start of the song was played in C# |  |
| D# | 0.00 |  |  |  | The start of the song was played in D# |  |
| E# | 0.00 |  |  |  | The start of the song was played in E# |  |
| F# | 0.01 |  |  |  | The start of the song was played in F# |  |
| G# | 0.00 |  |  |  | The start of the song was played in G# |  |
| Streams | NA | NA | 1,008,123,102 | 979,144,788 | The total number of streams the song has on spotify,. |  |
| Album Sales | 6.56 | 8.84 | 0.5 | 66 | The total number of certified units the single has sold. |  |
| BPM | 117.76 | 26.80 | 63 | 200 | the song's total number of beats per minute. |  |
| Artist Fanbase | 27272094.00 | 24851094.00 | 347918 | 120693473 | the average the amount of follows the artist has on spotify, youtube, and pandora |  |
| Instrument number | 4.69 | 0.63 | 3 | 6 | number of instruments used in the production of the song |  |
| Release Year | 2004.44 | 9.33 | 1989 | 2021 | the year the song was released to the public |  |
| Time Signature |  |  |  |  | The time signature of the song, also known as the songs rhythm expressed as a fraction |  |
| 1: 2/4 | 0.00 |  |  |  | The songs time signature is 2/4 |  |
| 2: 2/2 | 0.00 |  |  |  | The songs time signature is 2/2 |  |
| 3: 3/8 | 0.00 |  |  |  | The songs time signature is 3/8 |  |
| 4: 3/4 | 0.05 |  |  |  | The songs time signature is 3/4 |  |
| 5: 3/2 | 0.00 |  |  |  | The songs time signature is 3/2 |  |
| 6: 4/8 | 0.00 |  |  |  | The songs time signature is 4/8 |  |
| 7: 4/4 | 0.94 |  |  |  | The songs time signature is 4/4 |  |
| 8: 4/2 | 0.00 |  |  |  | The songs time signature is 4/2 |  |
| 9: 6/8 | 0.00 |  |  |  | The songs time signature is 6/8 |  |
| 10: 6/4 | 0.00 |  |  |  | The songs time signature is 6/4 |  |
| 11: 9/8 | 0.00 |  |  |  | The songs time signature is 9/8 |  |
| 12: 9/4 | 0.00 |  |  |  | The songs time signature is 9/4 |  |
| 13: 12/8 | 0.00 |  |  |  | The songs time signature is 12/8 |  |
| 14: 12/4 | 0.00 |  |  |  | The songs time signature is 12/4 |  |
| 15: 5/5 | 0.01 |  |  |  | The songs time signature is 5/5 |  |
| n=120 |  |  |  |  |  |  |

| Table 2: Cross Tab Between Artists Gender and Grammy Recognition | | | | | |
| --- | --- | --- | --- | --- | --- |
|  |  | Grammy | | |  |
|  |  | Not nominated 0 | Nominated, did not win 1 | Won 2 | Row Total |
| Gender | Women 1 | 24 | 12 | 0 | 36 |
| Row % | 67% | 33% | 0% | 100% |
| Man 2 | 41 | 12 | 5 | 58 |
| Row % | 71% | 21% | 8% | 100% |
| Genderfluid 5 | 2 | 1 | 0 | 3 |
| Row % | 67% | 33% | 0% | 100% |
| Mixed group 9 | 16 | 6 | 1 | 23 |
| Row % | 70% | 26% | 4% | 100% |
| Total Sample Size =120 | |  |  |  |  |
| X-squared = 4.9893, df = 6, p-value = 0.5452 |  |  |  |  |  |