**Data Science Capstone Project**

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| **Program Code: J620-002-4:2020** | |
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| **Program Name: Front-End Software Development** | |
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| **Name** | |
| Chong Mun Chen | |
| **IC Number** | |
| 960327-07-5097 | |
| **Title** | |
| Predict the Song’s Popularity | |
| **Date** | |
| 7/8/2023 | |
| **Purpose** | |
| Predict the song’s popularity on Spotify, that could be used in a future recommendation system to recommend songs. | |
| **Null Hypothesis** | |
| Pop songs cannot beat R&B and Hip Hop songs on the popular chart on Spotify. | |
| **Methodology:** | |
|  | Heat Map |
|  | Scatterplot Matrix |
|  | Tree Map |
|  | Bar Chart |
|  | Bar Chart |
|  | Line Chart |
|  | Pie Chart |
|  | Box Plot |
|  | Pie Chart |
|  | KDE Plot |
| **Findings** | |
| Songs with more danceability, energy, and studio recording performance will most likely end up with high popularity on the popular chart on Spotify. | |
| **Conclusion** | |
| I fail to reject the null hypothesis as Hip Hop songs are usually more popular than Pop songs on the popular chart. | |
| **Dataset URL** | |
| <https://www.kaggle.com/datasets/paradisejoy/top-hits-spotify-from-20002019> | |