Mind-Healing Playlist

Analyzing mental health states and matching them to music genres to create personalized playlists.

Project Overview

This project explores the relationship between mental health states and music genres.

By reclassifying mental states using clustering techniques and analyzing 30,000 Spotify songs, we aim to generate a **personalized "mind-healing" playlist** tailored to emotional needs.

Content

- **Reclassification of mental states** using K-means clustering.

- **Mapping mental states to music genres** through heatmap visualization.

- **Analyzing music attributes** using frequency distribution plots across a large Spotify dataset.

Tools & Languages

- **R** – Data analysis, visualization (ggplot2, heatmap)

- **Excel** – Data preprocessing and cleaning

Models & Methods

- K-means clustering

- Heatmap visualization

- Distribution plots (frequency analysis)

Results

- Integrating a recommendation algorithm for playlist generation

- Expanding to more nuanced emotional categories

- Deploying an interactive dashboard