GRAPHICAL (THINK OF A BETTER TITLE)

DATASET DESCRIPTION

- **TEMPORAL GRAPH:** [This is just copy-paste. Need to re-write, give credit to creators, and add citations.] The `tgbn-genre` dataset is a bipartite and weighted interaction network between users and music genres. It represents users and music genres as nodes, where an interaction denotes a user listening to a music genre at a given time. Edge weights indicate the percentage of a song belonging to a specific genre. The dataset is derived by linking songs from the LastFM-song-listens dataset with music genres from the million-song dataset.

VALUE TO INDUSTRY/BUSINESS

- **IMPROVED RECOMMENDATION SYSTEMS:** This project aims to enhance recommendation systems for streaming services like Spotify, Netflix, and YouTube. By predicting which set of music/movie/content genres a user will interact with the most, we can personalize recommendations, improve user experience, and increase user engagement and retention.

KEY STAKEHOLDERS

- Spotify, Netflix, YouTube, and other streaming services
- End users (listeners and viewers)

KEY PERFORMANCE INDICATORS (KPIS)

- **MRR SCORE:** [Brief explanation and reference]
- Something about the leaderboard: can we get on it?
- **USER ENGAGEMENT:** Track user engagement metrics such as time spent on platform, number of interactions, and user feedback.
- **RETENTION RATE:** Evaluate the impact of personalized recommendations on user retention and satisfaction.
- **BUSINESS IMPACT:** Assess the business impact in terms of increased subscriptions, ad revenue, and customer loyalty.

PROPOSAL OVERVIEW

- **OBJECTIVE:** Develop a machine learning model to predict user interactions with music genres over the next week.
- **APPROACH:** Utilize advanced graph-based algorithms and predictive modeling techniques to analyze user behavior patterns and preferences.
- **EXPECTED OUTCOME:** Deliver a scalable and accurate prediction system that enhances recommendation algorithms and drives business growth for streaming platforms.

CONCLUSION

Enhancing recommendation systems through predictive analytics can revolutionize the user experience in the streaming industry. By leveraging the `tgbn-genre` dataset, we aim to create actionable insights and strategic recommendations that empower businesses to deliver personalized content and stay ahead in a competitive market.

REFERENCES

main paper(s)

TGB website

etc.