Ho Do Minh Quan

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Personal Projects

Spotify Playlist Analysis - https://resonances.streamlit.app/   **Frameworks**: Streamlit, Airflow

- Extract audio features and metadata from Spotify playlist using Spotify API
  - Utilized Spotify API documentation for accurate and efficient data retrieval.
  - Optimize data extraction and manipulation skills to generate a base features dataset for recommendation training.
- Perform data analysis of user playlist
  - Conducted data analysis of user playlists and generated insightful visualizations to identify key patterns and trends.
  - Build recommendation system for suggesting songs based on playlist characteristics using content-based filtering; enhance recommendation quality by implementing collaborative filtering using matrix factorization on a wide range of users.
- Automate pipeline for extracting new features from Spotify playlist
  - Customized data pipeline to accommodate new data sources and improve the accuracy and reliability of the recommendation system.
  - Designed and hosted web application to deploy recommendation model; Application has been viewed by more than 100 distinct users.
  - Consistently enhanced and refined the recommendation model to optimize user experience.

Discord Music Bot - https://github.com/nauqh/Ashema   **Frameworks**: Hikari, Lavalink

- Developed a highly scalable and customizable music streaming bot for personal Discord servers
  - Integrated Lavalink framework, a high-quality music player that supports a variety of audio formats and music sources, including YouTube, SoundCloud and Spotify.
  - Incorporated queue management, track search, and playback history features to further improve audio streaming usability.
  - Designed and implemented features such as custom playlists, shuffle songs, and autoplay related tracks using Youtube API; The bot has been actively used in 5 diverse Discord channels.

Technical Experience

Google Developer Student Club – Innovation Team; Ho Chi Minh, Viet Nam   *June 2020 – December 2020*

- Helped organize technical events and workshops on Google technology for club members and the local community. Collaboration with cross-functional teams to deliver highly engaging and informative events.
- Utilized extensive networking skills and industry connections to invite relevant guest speakers, resulting in increased attendance and engagement throughout.

EDUCATION

Le Hong Phong High School for the Gifted; Ho Chi Minh, Vietnam   *August 2017 – June 2020*
Concentrations: English Major class | GPA: 9.0 / 10.0

Monash University | Bachelor of Computer Science; Melbourne, VIC   *March 2021 - June 2024*
Specialisation: Data Engineering & Software Development | GPA: High Distinction

SKILLS & INTERESTS

Interests: Data Engineering, Software Development
Languages: Python, SQL, R, Java
Frameworks & Tools: Django, React, Tableau, Airflow