

Ho Do Minh Quan

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PERSONAL PROJECTS

Spotify Playlist Analysis - <https://resonance.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 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/naugh/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 – Technical Officer; Ho Chi Minh, Viet Nam - Melbourne

June 2020 – Present

- 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.
- Organize and moderate a collaborative Discord server for developers and students to exchange ideas, share resources, and enhance their skills.

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, Australia

March 2021 - June 2024

Specialisation: Data Science & Software Development | GPA: High Distinction

SKILLS & INTERESTS

Interests: Data Engineering, Software Development

Languages: Python, SQL, R, Typescript

Frameworks & Tools: Django, React, Tableau, FastAPI