

Ho Do Minh Quan

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PERSONAL PROJECTS

Music Recommendation System - musicotherapy.vercel.app

Libraries: React, Fastapi, Langchain

- Extract audio features and metadata from Spotify playlist using Spotify API
 - Utilised Spotify API documentation for accurate and efficient data retrieval.
 - Optimise 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 visualisations 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.
- Utilise large language model for music characteristics analysis
 - Conducted fine-tuning of the GPT-4 model for in-depth analysis of music characteristics, employing advanced prompt engineering techniques to optimise performance and precision
 - Designed and hosted web application to deploy recommendation model; Application has been viewed by more than 100 distinct users.

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.
 - 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.
- Improved user interaction by creating a more engaging and responsive experience.
 - Implemented interactive commands and responses, allowing users to control the bot intuitively through Discord chat, enhancing user engagement and experience.

TECHNICAL EXPERIENCE

Google Developer Student Club – Technical Officer; Ho Chi Minh, Viet Nam - Melbourne, AU

June 2020 – Present

- Helped organise 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.
- Utilised extensive networking skills and industry connections to invite relevant guest speakers, resulting in increased attendance and engagement throughout.
- Designed an automated scraping bot to collect data on job postings from various resources and update on a daily basis.

Coderschool – Teaching Associate; Ho Chi Minh, Viet Nam

November 2023 – Present

- Provide comprehensive knowledge across multiple domains in data science and computer science, guiding learners towards a deeper understanding of the field and helping them choose the right career path. Successfully supported over 20 learners to graduate with high results and receive immediate job offers.
- Train and mentor new teaching assistants, ensuring they are well-prepared for their roles. Develop automated tools to enhance TA productivity and improve learner support. Organise and moderate a collaborative Discord server for learners and mentors to exchange ideas, share resources, and enhance their skills.

EDUCATION

Monash University | Master of Data Science; Melbourne, Australia

July 2024 - Present

Specialisation: Applied Data Analysis | GPA: High Distinction

Monash University | Bachelor of Computer Science; Melbourne, Australia

March 2021 - June 2024

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

SKILLS & INTERESTS

Languages: Python, Typescript, SQL, R, HTML/CSS

Data Technologies: Pandas, Numpy, Plotly, Scikit-learn, Langchain, Pytorch, Tableau, Dagster

Software Frameworks and Tools: React, Nextjs, Tailwind, Chakra, FastAPI, Git, Docker