

Ganeshkaran M

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Experience

Summer Intern, Movate – Chennai, India

August 2024 – October 2024

Classification of songs based on genre

- Scraped a dataset of 1500+ songs spread across 10 genres to create a unique dataset. The dataset was split into train, test and validation parts for optimizing model performance.
- Extracted features and performed feature engineering techniques like RFE to identify the most relevant features.
- Extracted mel-spectrogram images for each song.
- Trained an ensemble model with the extracted features and mel-spectrograms and the model achieved an accuracy of 85%.

Projects

Explainable AI for Glaucoma Detection

June 2024 - August 2024

- An automated Glaucoma Detection System using a novel deep learning technique, a hybrid VGG-19 CNN model achieving 82.17% accuracy.
- The decisions made by the model is interpreted by SHAP and Lime explainable AI
- Tech Stack: Python, TensorFlow, Keras, SHAP, Lime.

Metadata

July 2024 - Present

- Developed an intuitive Pre-processing and Deep Learning system that enables students to access, customize, and train Deep Learning models with their required pre-processing functions applied to their datasets.
- Enhanced hands-on learning experiences through interactive model experimentation and real-time feedback.
- Collaborated with educators to align the system with curriculum goals, employed Agile methodologies to quickly respond to stakeholder needs.
- Tech Stack: Stack: Python, Flask, TensorFlow, Keras, HTML, CSS, JavaScript, MySQL, Docker, Git.

RAG Based Career Guidance Chatbot

Aug 2024 - Present

- Developed a career guidance chat bot which leverages RAG to give personalized career guidance and job openings based on resumes provided by the user.
- Tech Stack: Python, LLM, SpaCy, Selenium, Node.js, HTML, CSS.

Education

Amrita Vishwa Vidyapeetham, B.Tech in Computer Science Engineering

June 2021 – June 2025

- GPA: 7.7

Aditya Vidyashram, Class 12th

April 2020 – April 2021

- GPA: 95.2%

Technologies

Languages and Tools: Python, C++, C, Java, SQL, HTML, CSS, JavaScript, TensorFlow, Keras, HuggingFace, Node.js, Azure, MongoDB, OpenGL

Fields of Interest: Deep Learning, Natural Language Processing, Computer Vision, Data Analytics

Extra Curricular Activities

Quizzing:

- Winner in several national level and Open Category quizzes in school and college level.
- Conducted quizzes for my peers in school and college.

Sports:

- Played Cricket at the Under-16 level for the Pondicherry State cricket team
- Runner up in the 2023 intra-college 7s football tournament