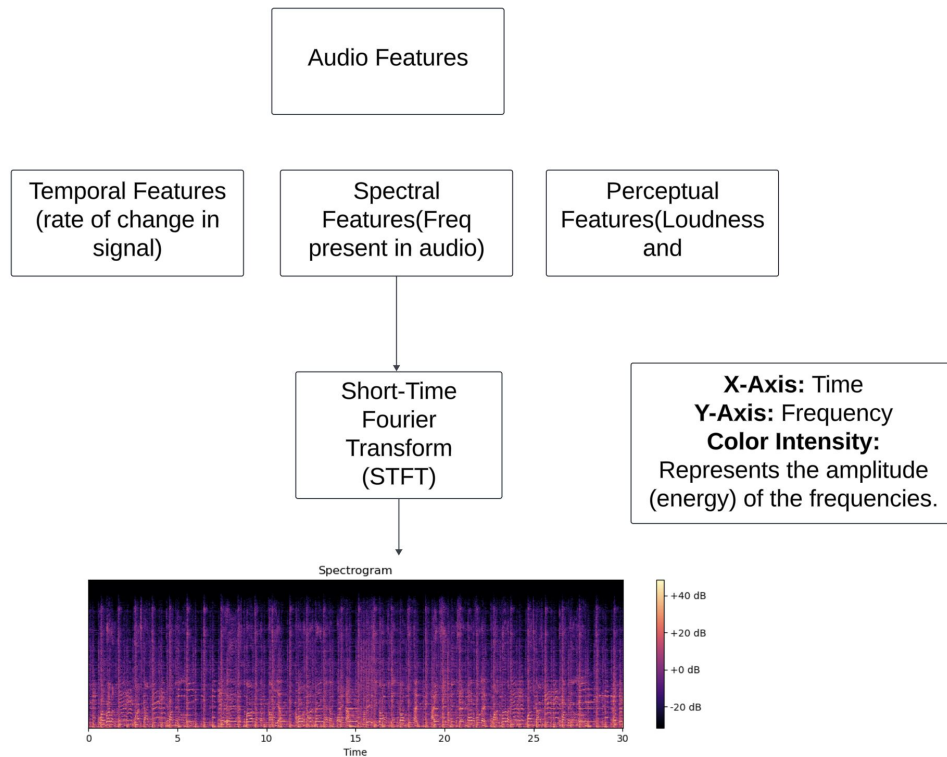


# **Music Genre Classification: comparing impact of feature extraction on the model prediction**

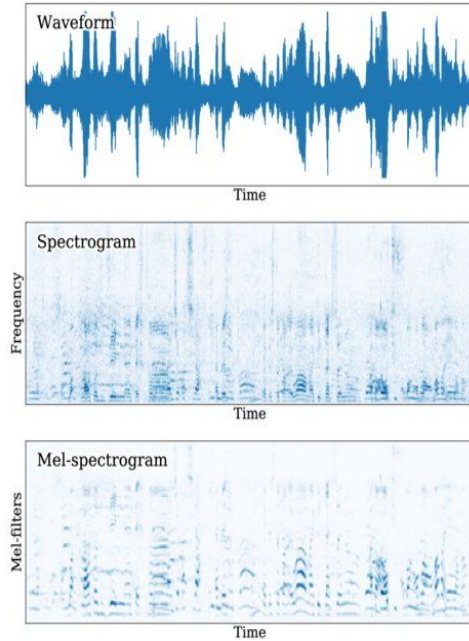
Sulagna Saha

Deep Learning by Prof Bálint Gyires Tóth - AIT Budapest - Spring 2024

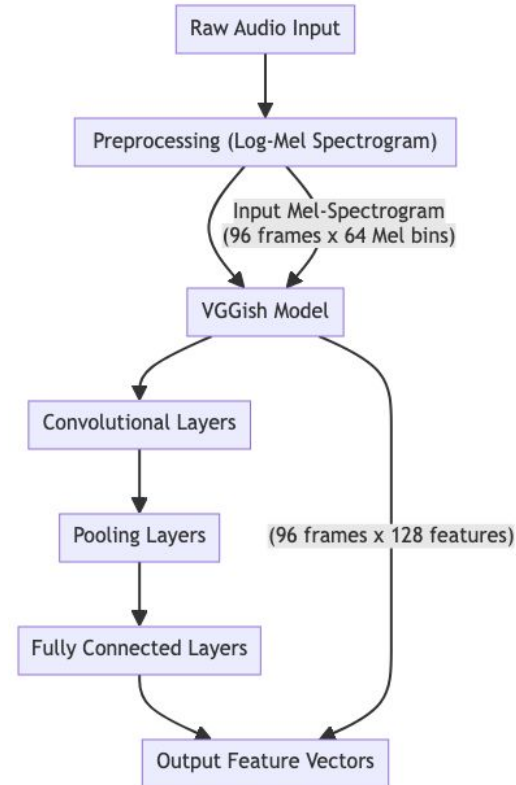
# Features from audio(Scratch)



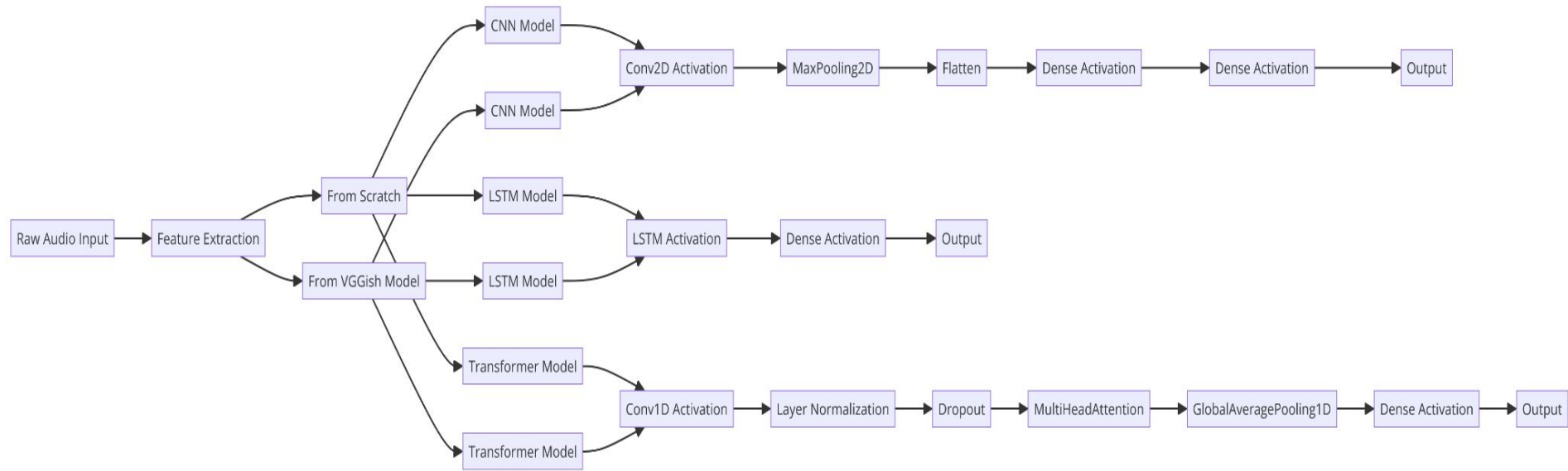
# VGGish Model(pre-trained)



[Source](#)

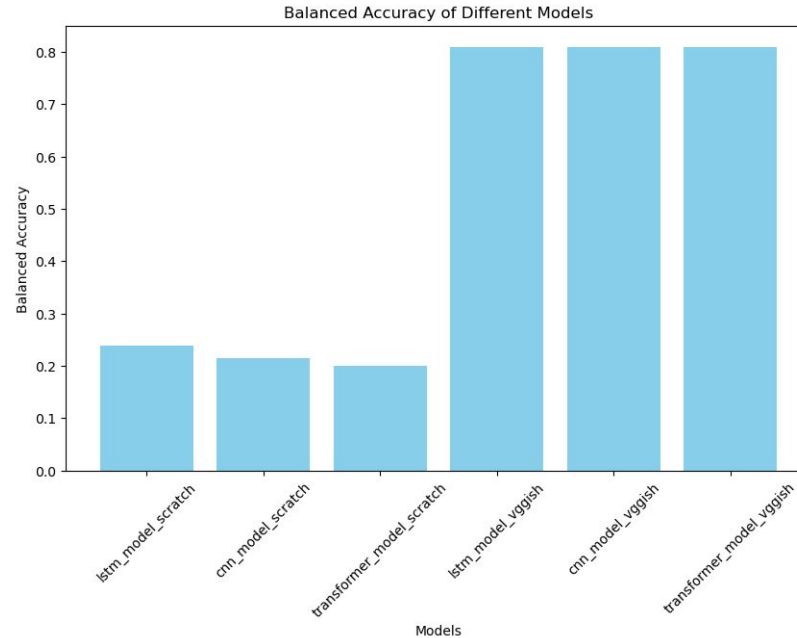


# Proposed Method

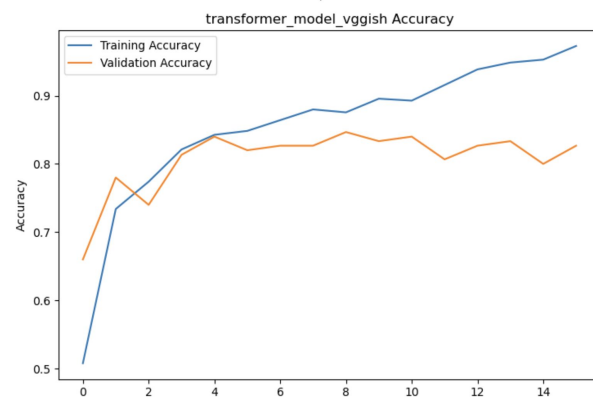
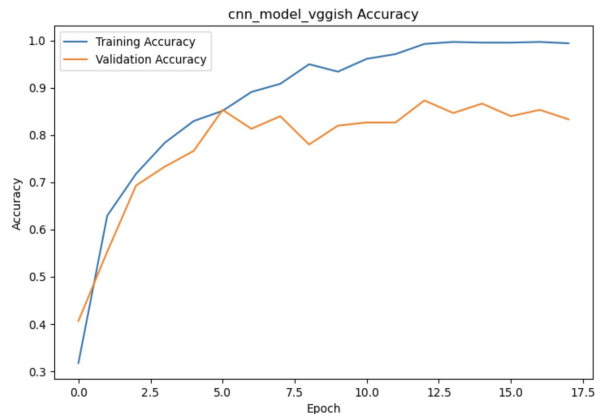
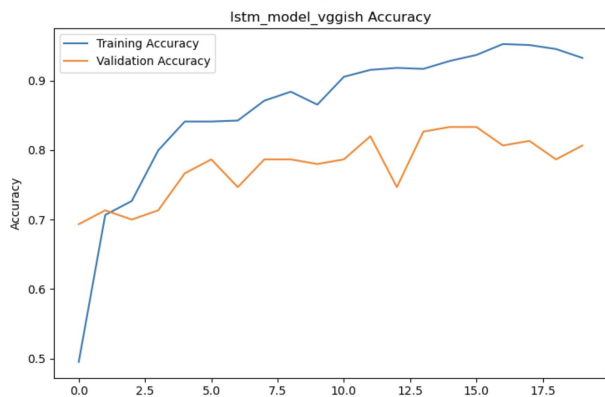


# Results

Features from VGGish Model >> Features from Spectrogram



# Best model: transformer\_model\_vggish



More stable and less overfitting compared to LSTM and CNN  
Val accuracy ~ 85% which is more than the CNN model suggested earlier ~ 45%