Please provide the following information to be shared with on capstone information exchange platform:

1. **Project number**: 9

2. **Project title (as will appear on the poster)**: Tempo: A Context-Aware Music Application


4. **Adviser(s) name(s)**: Dr. Anand Sarwate

5. **Up to 10 keywords that will help to classify the project**: Android, Machine Learning, Music, Neural Networks, Mel Spectrogram, Context-Awareness, Recommendation System

6. **Project abstract (up to 200 words) to be shared with judges**:

Music is timeless. Throughout history, music has played an integral part in how we communicate, connect, and celebrate with others. With the birth of the Internet and the explosion of digital audio, billions of people around the world have access to music from any corner of the world. Despite the wide array of available music, however, people tend to listen to popular and trending songs, often neglecting to listen to their entire list of available songs and to consider new artists and genres. With Tempo, we aspire to change how people listen to music throughout the day, whether they are working in the afternoon or exercising in the evening. Tempo is an Android application that will recommend music by being contextually aware of the user’s environment. It is driven by context recognition through Android services, and machine learning algorithms that will classify songs into the chosen context categories, so that the application can select appropriate songs by matching these song classifications with the detected context. This application will provide this service for the user through a beautiful and simple user interface.