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Data Project 1 Reflection

I really enjoyed the latter stages of this project where I get to explore the API documentation and see what I can do with it. However, the beginning of the project was especially difficult because creating the function for authentication with minimal documentation with Python. This is because Spotify had multiple authentication method with some requiring an application to be ran by opening authentication on a new browser. Thus, by choosing the simplest form of authentication, which gives me access to only the publicly available APIs due to not using user logins, I was only able to create input-based recommendations rather than some more complicated queries of user listening habits which would have been more interesting. Afterwards, there were some challenging aspects of data parsing with call returns because Spotify required a variety of IDs of songs, artists, and genres in order to make their recommendations. For me, linking one function to another and passing and returning the correct objects can be a bit confusing at times. However, although the variety of data systems used in this project made me a little nervous at first, the transformation between was actually quite easy due to the expansive libraries already available to me. In future projects, I think the experience I gained in this project will help a lot with the extract and load process and I think I can still improve and get more complexity with data transformation. I will also be revisiting Spotify API because I think that there are a lot of creative avenues for me in creating fun applications.