Problem:

Looking for clothes online can be such an exhausting process, as it is very hard to find exactly what you are imagining in your head. The normal search for clothes includes having to sort through many different websites with varying outcomes. Then comes the problem of sizing. How many times have you gotten clothes online and they do not fit how you envisioned them? There is a space in the market for an application that is like a personal AI-based cloth cultivator.

Solution:

My capstone project would aim to deliver an application that can make it easier to find clothing you want across many different websites in order to find exactly what you are looking for. The application would work by allowing the user to type in what they are looking for, and it would show instant results across different websites that match the query. The website would rank the results by how close they are to the query, so the user has options. This acts as a personal AI based fashion curator that learns from the users likes and shows results tailored to them. The sizing problems would also be solved by having the user input their height and weight (optional). Then, it would be calculated what lengths could be considered cropped or oversized, and for pants, what would be considered baggy or tight. Although sights provided measurements, it is hard for the user to visualize it in their body, and this would help solve that problem. This would help users find clothes exactly to their wishes and also help retailers by reducing the return rate of clothes, since users would have a better understanding of what they are purchasing, as clothing returns are expensive for retailers and a hassle for the consumer.

Data:

The data for this project would come from affiliate network APIs. Affiliate networks are basically the middleman between retailers and publishers. The different retailers provide information about their products in order to try marketing their products better through media like fashion blogs and aggregation websites. This API provides a large amount of data, such as product id, product name, price, description, and much more. This is also across thousands of different retailers, so it would be very effective for my project as it would allow the user to compare between the different retailers. The exact API I intend to use is Skimlinks, a network that contains over 48,000 merchants. This is also much easier than scraping different websites for product data, as it is easier and allows for much more data.

This data would be very effective for AI-based implementations as it includes many different facets that would be used in this project. Some examples include natural language processing to try getting intent from the user, multi-factor ranking, and size inference.