Decoding Data Science(DDS) Academy

AI Application Building Challenge

For students (instructor review required)

Day 1 Idea Submission Template

Project Title:
 VogueTry

Concept Summary:
(Briefly describe your idea, including its purpose and the problem it aims to solve.)

This project is a generative AI–based virtual try-on application designed to help users visualize how clothing may look on them before purchasing online. The purpose of the application is to reduce uncertainty and dissatisfaction in online shopping.The app aims to minimize unsuitable purchases

Target Audience:

(Who will benefit from your project? Describe their needs.)

This project will benefit online shoppers who often feel unsure about how clothing will look on them before purchasing. It addresses their need for better visualization and confidence while shopping online and reduce incorrect purchases.

Key Features:
(List the main features or functionalities of your application.)
1. User input for body type, size, and style preferences
2. Personalized clothing recommendations
3. Virtual try-on using AI-generated outfit previews

Technical Approach:
(How do you plan to implement your idea? Mention technologies or methods.)

The application will be implemented using Python for logic and generative AI models to create virtual outfit previews. Users can input their body type, size, and style preferences, and the AI will generate realistic visualizations of how clothing will look on them. A simple web will allow users to upload photos and interact with the virtual try-on feature.

Expected Challenges:

(What potential obstacles do you foresee, and how will you address them?)

Potential obstacles include generating realistic outfit previews that match different body types, and creating an easy-to-use interface. These can be addressed by starting with pre-trained AI models.

Submission Format:

(Outline how your submission should be presented: documents, slides, etc.)

A short report describing the project idea, purpose, features, and implementation plan and screenshots of the virtual try-on feature to showcase the app.

Expected Outcome:

(What do you aim to achieve by the end of the challenge?)

By the end of the challenge, I aim to have a working prototype of the virtual try-on application, and gain hands-on experience in applying generative AI to a real-world problem. Additionally, I hope to improve my skills in Python,and AI integration.

Additional Notes (Optional):

This project is a learning-focused prototype, and the goal is to explore the potential of generative AI in fashion and e-commerce. While full-scale accuracy may be limited initially, the emphasis is on creativity, and gaining practical experience with AI technologies.