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Class: ECO 32500 - Python for Business Analytics

Date Due: 10/18/2024

## HW 5: Put on a Coat

### 1. Identify the problem, metric, be specific

- **Problem:** You need to wear a coat (Objective: to stay warm and comfortable).
- **Question:** What is the best way to put on a coat quickly and comfortably?
- **Why the question:** Wearing a coat brings protection from the weather without discomfort or inconvenience (like getting cold or wet).

### 2. What do I need to know to answer the question?

- **Action point:** Choose the right coat based on the weather conditions and occasion (style, comfort, practicality).
- **What needs collecting:**
  - Weather conditions (cold, rainy, windy).
  - Type of coat (jacket, trench coat, raincoat).
  - Personal items: Will you need gloves, a scarf, or a hat?
- **Beginning data:** Make sure you have selected the appropriate coat for the weather and checked that all closures (buttons, zippers) are functional.
- **Collect data for:** Making sure the coat is ready to wear and fits properly.

### 3. Identify all things I need to gather before putting on the coat

- **Time:** Time required to get ready (e.g., ensure no delays if in a rush).
- **What raw data:** The type of coat, weather forecast, and any accessories needed.
- **Inferences:** Based on the coat type, decide if you need to layer it over other clothing (e.g., wearing a sweater under a lighter jacket).

### 4. Organize the data and decide what I need to collect

- **Data Cleaning:** Make sure the coat is clean, or free of wrinkles or debris.
- **Outliers:** If the coat has a hood or extra features (like a belt), prepare to adjust them as needed.
- **Make data usable:** Identify the sleeve openings and any fastenings to ensure quick and easy wear.
- **Data Relationships:** Understand how the coat interacts with other clothing (e.g., is it too tight over a thick sweater?).
- **Apparent vs. Inferred:** Don't assume the coat fits the same with different layers—test it beforehand if necessary.

### 5. Find and identify the relationships

- **Look for:** Coordination between the coat and any accessories (e.g., matching gloves or scarves).
- **Outliers:** Some coats may need extra time to put on due to complex closures (e.g., multiple buttons or buckles).
- **Percentage:** Estimate how often you'll need to use additional features like the hood or inner lining.

- **Chart:** Visualize the process of putting on the coat smoothly to avoid frustration.
- 6. **Find a solution**
  - **Undo the problem:** If the coat feels uncomfortable or doesn't fit properly, try adjusting layers or switching coats.
  - **Change the situation:** Use strategies like pre-adjusting sleeves or practicing with complex closures to make future wear easier.
- 7. **Presentation/Tell a story**
  - **Opportunities:** This process ensures you're always prepared for the weather, presenting yourself comfortably with style (practically) while staying warm and dry.