**Part 3: AI Agent Integration**

I used Microsoft Copilot to refine my Python code.

Prompt: "Refine this Python code for a car seatbelt alarm to make it neater and simpler: [pasted version 1 code]"

Copilot response: Here's a neater version. I made the input prompts clearer and used a function for the logic to make it easier to test.

**Refined Code:**

**def check\_alarm():**

**driv = int(input("Is the driver present? (1/0): "))**

**pass\_ = int(input("Is the passenger present? (1/0): "))**

**ign = int(input("Is the ignition on? (1/0): "))**

**belt\_d\_bar = int(input("Is the driver belt unfastened? (1/0): "))**

**belt\_p\_bar = int(input("Is the passenger belt unfastened? (1/0): "))**

**if ign == 1 and ((driv == 1 and belt\_d\_bar == 1) or (pass\_ == 1 and belt\_p\_bar == 1)):**

**return 0 # Alarm ON**

**else:**

**return 1 # Alarm OFF**

**alarm = check\_alarm()**

**print("ALARM =", alarm)**

Comparison: My original code is straight, but Copilot's is in a function, making it easier to reuse. It's similar but cleaner with better prompts. Back-test: Tested with IGN=1, DRIV=1, BELT\_D\_bar=1, others 0 - both give ALARM = 0. Good match.