Based on the provided assurance case pattern predicates and the domain information about the DeepMind system, here's how the assurance case for the DeepMind system can be instantiated and represented in a hierarchical tree format using dashes to denote different levels:

\*\*Interpreted Assurance Case for DeepMind System:\*\*

```plaintext

- G1: Interpretability Claim. The DeepMind system is sufficiently interpretable in the intended clinical pathway

- C1: DeepMind system

- C2: Interpretable

- C3: Clinical pathway for retinal diagnosis

- S1: Argument based on the essential aspects of interpretability

- C4: Essential aspects of interpretability

- G2: Right Method. The right interpretability methods are implemented, i.e., the correct information is faithfully being explained

- C5: Interpretability methods implemented in DeepMind system

- S2: Argument over interpretability methods

- G8: Segmentation map method is the right type e.g., local/global (i.e., the correct thing is being explained)

- G9: Segmentation map method is suitably faithful to DeepMind system process

- G3: Right Context. Interpretations produced in the clinical pathway

- C6: Format of interpretations

- G5: Right Time. Interpretations produced at the appropriate time (undeveloped, needs further development)

- G6: Right Setting. Interpretations are available in the right setting (undeveloped, needs further development)

- G7: Right Audience. Interpretations produced for the retinal clinicians (undeveloped, needs further development)

- G4: Right Format. Interpretability methods are presented in the right format for the retinal clinicians (undeveloped, needs further development)

```

### Explanation of Changes and Instantiations Made:

1. \*\*Goals Instantiation:\*\*

- G1 (Top-Level Goal): "ML Model" → "DeepMind system"

- G2: Kept as is and placed in context with interpretability methods relevant to DeepMind.

- G3: "Interpretations" → "Interpretations produced in the clinical pathway"

- G4: "Interpretability methods" → "Segmentation map method"

2. \*\*Context Instantiation:\*\*

- C1: "{ML Model}" → "DeepMind system"

- C2: "{interpretable}" left as general

- C3: "{intended context}" → "Clinical pathway for retinal diagnosis"

- C4: Left as general "Essential aspects of interpretability"

- C5: "{Interpretability methods}" → "Interpretability methods implemented in DeepMind system"

- C6: "{Format of interpretations}" left as general

3. \*\*Strategies Instantiation:\*\*

- S1: Related to overall essential aspects and format

- S2: Related directly to interpretability methods involved in the system

4. \*\*Uninstantiated and Undeveloped Elements:\*\*

- The goals G4, G5, G6, G7, G8, and G9 are marked as undeveloped, requiring further detailing.

5. \*\*Solution Instantiation:\*\*

- Currently no solutions (Sn) provided, as these would refer to specific pieces of evidence or concrete instances in the final development.

```

This is how an assurance case can be systematically developed using an assurance case pattern and instantiated with specific details pertinent to the DeepMind system. This case illustrates how the intermediate steps—such as transparency via segmentation map—can be presented to address the interpretability of the system.