Using the assurance case pattern provided and the specific domain information about the DeepMind system, the following structured assurance case for the DeepMind system has been instantiated. The placeholders and additional decorators have been replaced or removed, as appropriate, to fit the specific context of the DeepMind system.

@Assurance\_case

- G1: Interpretability Claim. The DeepMind ML Model is sufficiently interpretable in the clinical context

- S1: Argument based on the essential aspects of interpretability

- C1: ML Model processes eye scans to predict retinal diseases

- C2: Interpretability refers to transparency and comprehensibility of the ML Model's processes

- C3: Context: Clinical setting, timing during diagnosis, and retinal clinicians as the audience

- C4: Essential aspects of interpretability include transparency of the segmentation map and integration into the clinical workflow

- G2: Right Method. The right interpretability methods (segmentation map and confidence levels) are implemented.

- S2: Argument over interpretability methods

- C5: Interpretability methods include segmentation map and diagnostic outputs with confidence levels

- G8: The interpretability method is the right type (e.g., local/global).

- G9: The interpretability method is suitably faithful to the ML model process.

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

- C6: Format of interpretations is detailed maps and diagnosis predictions on patient interface

- G5: Right Time. Interpretations are produced at the appropriate time during the clinical diagnosis.

- G6: Right Setting. Interpretations are available in the clinical setting.

- G7: Right Audience. Interpretations are produced for retinal clinicians.

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

@End\_Assurance\_case

This instantiation has aimed to remove all placeholders and uninstantiated decorators while replacing them with specific information about the DeepMind system, as described in the domain information. Furthermore, the assurance case still uses undeveloped decorators for Goals G4 to G9, reflecting areas where the development of the case could be further detailed or extended.