To create an assurance case for the interpretability of a DeepMind machine learning (ML) enabled system using Goal Structuring Notation (GSN), we need to outline a structured argument broken down into goals, strategies, and evidence. Here's a simplified version formatted hierarchically:

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Interpretability Assurance Case for DeepMind ML System

- G1: Claim: The DeepMind ML system is interpretable

- S1: Strategy: Demonstrate interpretability through model transparency and comprehensibility

- G1.1: Claim: The model architecture supports interpretability

- E1.1: Evidence: Documentation of model architecture (layers, functions, etc.)

- E1.2: Evidence: Expert reviews asserting the architectural suitability for interpretability

- G1.2: Claim: The features used by the model are understandable

- E1.3: Evidence: List of features used by the model with descriptions

- E1.4: Evidence: Expert testimonials on the relevance and understandability of features

- S2: Strategy: Use of techniques that enhance interpretability

- G2.1: Claim: Implementation of feature importance analysis

- E2.1: Evidence: Feature importance scores generated by the model

- E2.2: Evidence: Validation report on feature importance analysis methodology

- G2.2: Claim: Use of model-agnostic interpretation methods

- E2.3: Evidence: Application logs showing usage of LIME, SHAP, or other interpretative tools

- E2.4: Evidence: Case studies demonstrating how these tools aid interpretation

- S3: Strategy: Demonstrate the system’s ability to provide explanations for its decisions

- G3.1: Claim: The system can generate understandable decision explanations

- E3.1: Evidence: Samples of decision explanations provided to users

- E3.2: Evidence: User studies showing user comprehension of explanations

- G3.2: Claim: Continuous training includes interpretability improvement

- E3.3: Evidence: Logs of iterations in training aimed specifically at improving interpretability

- E3.4: Evidence: Feedback integration reports showing how user feedback improved model explanations

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Each component of the GSN (goals, strategies, and evidence) is intended to build the argument that the ML system is interpretable. This not only shows how interpretability is assessed but also establishes a traceability path from claims to the supporting evidence. The hierarchical tree structure helps in understanding the logical connections, dependencies, and the systematic approach in addressing the central claim of interpretability.