Sure, here's an assurance case for the interpretability of the DeepMind Machine Learning enabled system using Goal Structuring Notation (GSN) in a hierarchical tree format:

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Goal: G1 - The DeepMind Machine Learning enabled system is interpretable.

Strategy: S1 - Interpretability will be demonstrated through clearly defined sub-goals.

Goal: G1.1 - The system's decision-making process is understandable.

Context: C1 - The scope includes all machine learning models used in the system.

Evidence: E1 - Documentation detailing the algorithms and data used.

Solution: Sol1 - Provide detailed model descriptions and flowcharts.

Goal: G1.2 - The system's outputs can be traced back to inputs.

Context: C2 - This includes all input data, preprocessing steps, and model outputs.

Evidence: E2 - Traceability matrix linking inputs to outputs.

Solution: Sol2 - Implement end-to-end traceability mechanisms.

Goal: G1.3 - The system's behavior can be predicted and explained.

Context: C3 - This includes performance metrics, accuracy, and error analysis.

Evidence: E3 - Test reports showcasing consistent behavior under various conditions.

Solution: Sol3 - Conduct extensive testing and provide analysis reports.

Goal: G1.4 - The system incorporates mechanisms for user feedback and refinement.

Context: C4 - System allows for human-in-the-loop interventions.

Evidence: E4 - User feedback logs and refinement processes.

Solution: Sol4 - Implement features allowing users to interact with and refine the model.

Goal: G1.5 - The system includes visualization tools for model insights.

Context: C5 - Tools for visualizing various aspects of the model and data.

Evidence: E5 - Screenshots and documentation of the visualization tools.

Solution: Sol5 - Develop and integrate comprehensive visualization tools.

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This tree structure breaks down the top-level goal (interpretable system) into more tangible sub-goals and provides context, evidence, and potential solutions to meet each sub-goal.