Creating an assurance case for the interpretability of a DeepMind Machine Learning (ML) enabled system involves structuring goals, strategies, solutions, assumptions, justifications, and context in a hierarchical tree format. Here's a GSN-style hierarchical tree representation:

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Goal: G1 - Demonstrate the interpretability of the DeepMind ML enabled system.

- Goal: G1.1 - Ensure the system's decision-making process is transparent.

- Goal: G1.1.1 - Provide model explainability methods.

- Strategy: S1 - Use interpretable models or post-hoc explanation methods.

- Solution: Sn - Implement interpretable models such as decision trees.

- Solution: Sl - Apply post-hoc explanation methods like SHAP or LIME.

- Goal: G1.2 - Validate the quality of the explanations provided.

- Goal: G1.2.1 - Conduct user studies to measure understandability.

- Strategy: S2 - Survey end-users and experts on explanation quality.

- Solution: Sm - Design and administer user studies and surveys.

- Context: C1 - Use diverse demographic samples in studies.

- Goal: G1.2.2 - Ensure alignment between explanations and the model's internal logic.

- Strategy: S3 - Cross-verify with domain experts.

- Solution: Sp - Conduct expert reviews on the generated explanations.

- Assumption: A1 - Domain experts have adequate knowledge and are unbiased.

- Goal: G1.3 - Documentation and communication of the interpretability features.

- Goal: G1.3.1 - Generate comprehensive documentation.

- Strategy: S4 - Document methodologies, tools, and results.

- Solution: Sd - Create detailed reports and manuals.

- Context: C2 - Follow standard documentation practices.

- Goal: G1.3.2 - Train users and stakeholders on interpretability tools.

- Strategy: S5 - Develop and deliver training sessions.

- Solution: St - Create training materials and conduct workshops.

- Goal: G1.4 - Continuous improvement of interpretability.

- Goal: G1.4.1 - Implement feedback loops for continuous monitoring and improvement.

- Strategy: S6 - Regularly update interpretable models and explanation methods.

- Solution: Su - Establish a process for periodic reviews and updates.

- Justification: J1 - Keeping the system up-to-date with the latest research and user feedback is crucial.

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This hierarchical tree structure represents an assurance case for the interpretability of the DeepMind ML-enabled system using Goal Structuring Notation (GSN). Each level breaks down the goals into manageable sub-goals, strategies for achieving them, and the solutions that will be implemented, along with the necessary context, assumptions, and justifications.