Here is a \*\*clean and concise introduction suitable for a Review PPT slide\*\*:

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### 🎯 \*\*Introduction\*\*

\* Supplier selection is a key process in supply chain management that affects product quality, cost, and delivery time.

\* Traditional approaches rely on historical performance data like defect rates, downtime, and delivery history.

\* A major challenge arises when new suppliers are introduced without any past performance records — this is known as the \*\*cold-start problem\*\*.

\* This project proposes a machine learning-based system to:

• Predict reliability of existing suppliers using historical data.

• Estimate reliability of new suppliers based on their attributes (material type, category, location) and similarity to existing suppliers.

\* The goal is to enable data-driven decisions for efficient and resilient supplier selection.

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👉 Would you like me to further simplify it into bullet points or add a visual diagram for your PPT slide?

Here is a \*\*clean, simple, and model-agnostic version of the Objectives section\*\* suitable for your Review PPT slide:

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### 🎯 \*\*Objectives\*\*

\* Predict the reliability of existing suppliers using historical performance data such as defect rates and downtime.

\* Address the cold-start problem by estimating the reliability of new suppliers based on available attributes (material type, category, and plant location).

\* Enable data-driven decision-making for supplier selection to improve supply chain efficiency.

\* Reduce risks related to unreliable suppliers and minimize disruptions.

\* Provide a scalable framework that can be extended in the future with more advanced techniques.

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👉 Would you like me to further format this into neat bullet points for easier slide presentation?

Here is a \*\*clean and professional Scope section suitable for your Review PPT slide\*\*:

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### 🎯 \*\*Scope of the Project\*\*

\* Evaluate supplier reliability based on historical data (defect rates, downtime, material type, category, etc.).

\* Predict the performance of new suppliers using only their available attributes (without historical performance data).

\* Focus on building a general framework applicable to global suppliers (no region-specific focus).

\* Support procurement decisions by providing a reliability score or recommendation.

\* Allow future extension to include advanced methods like graph-based similarity or real-time data updates.

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👉 Let me know if you want me to format this into concise bullet points with icons for your slide design.