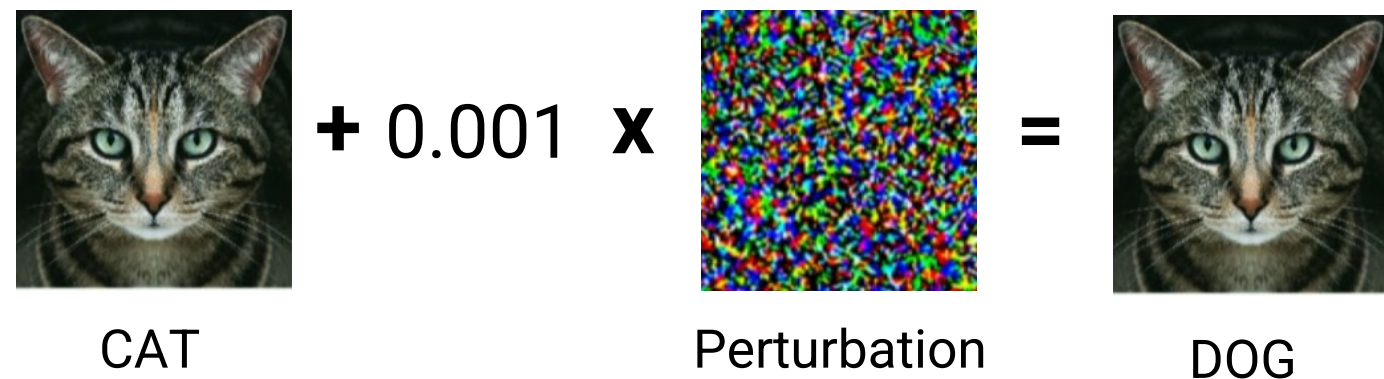
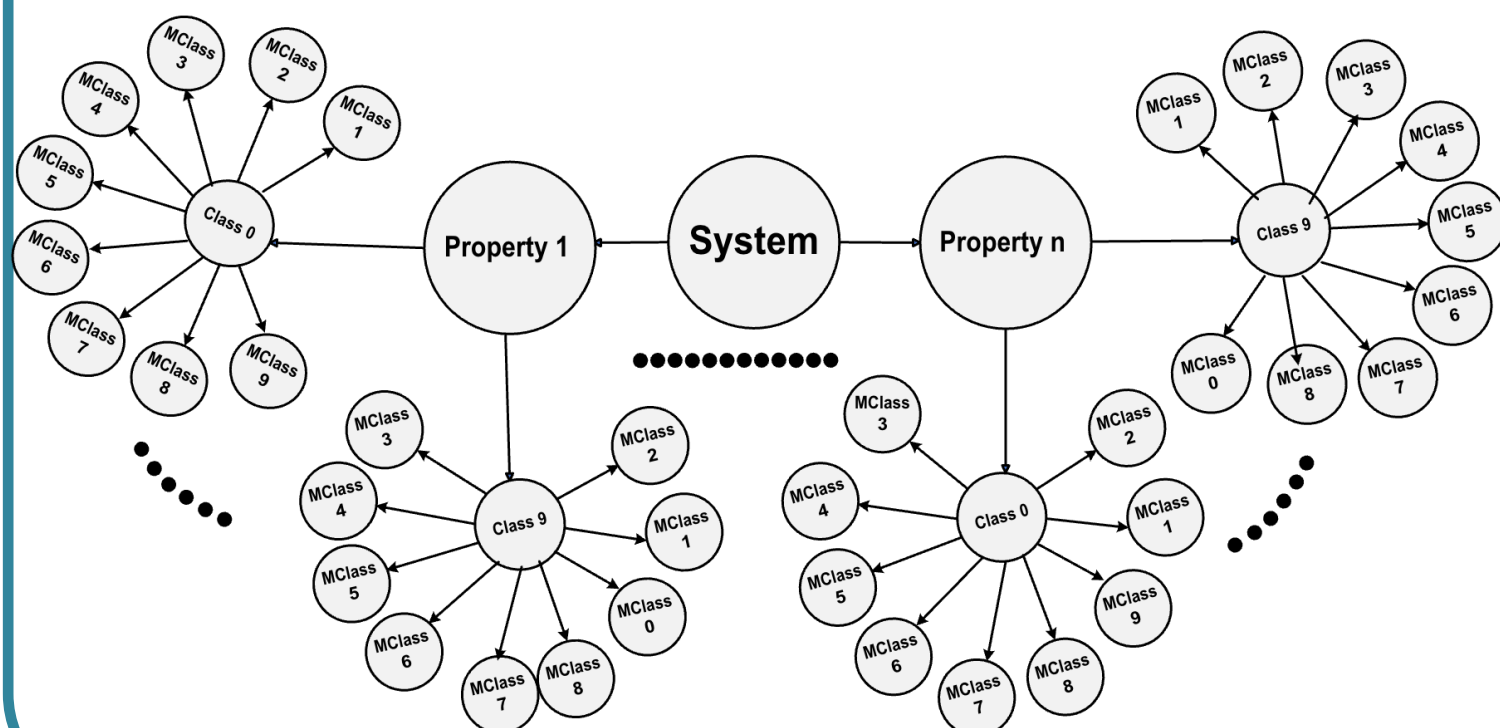


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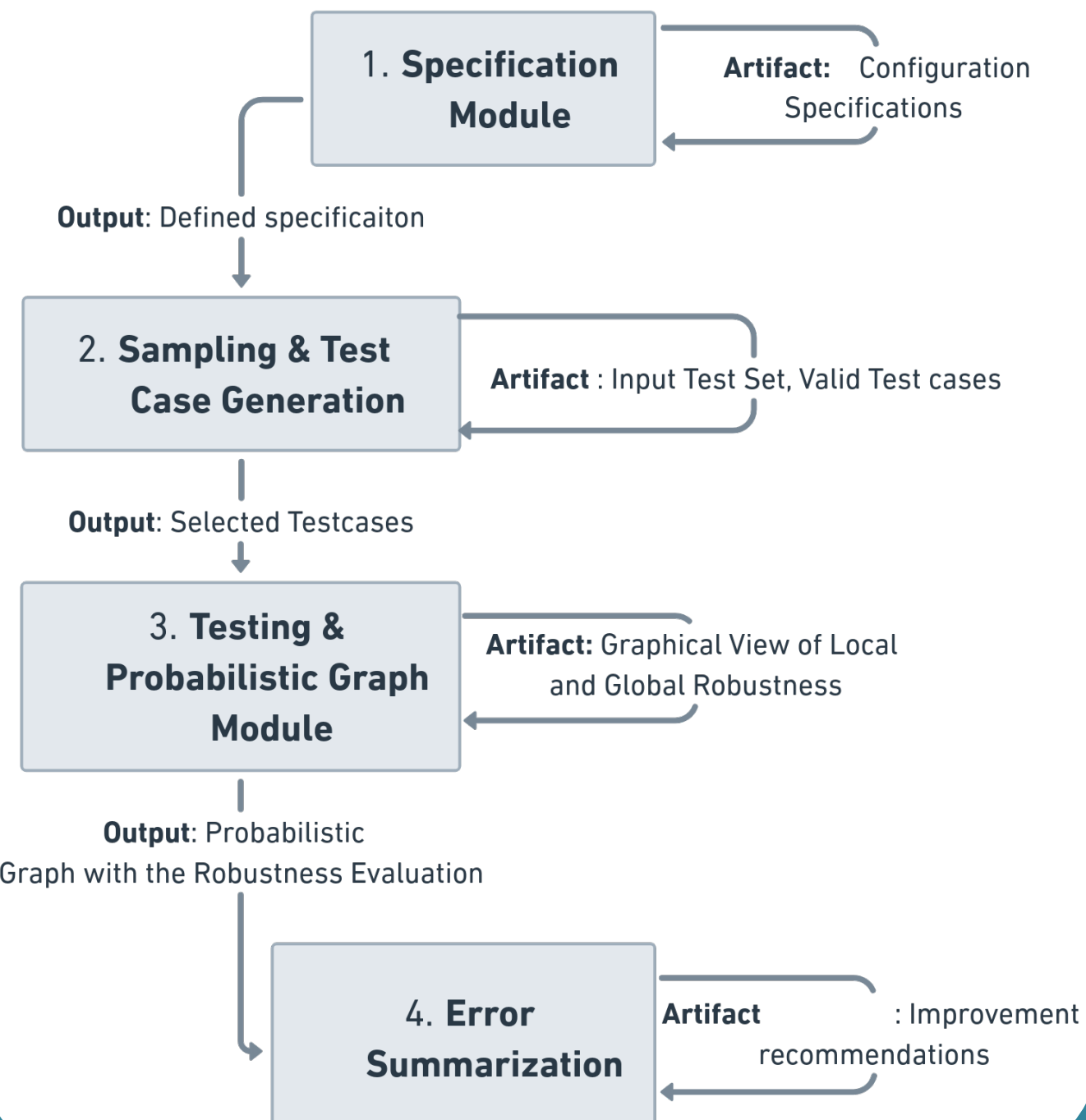
Problem: **non-robust** deep learning (DL) applications



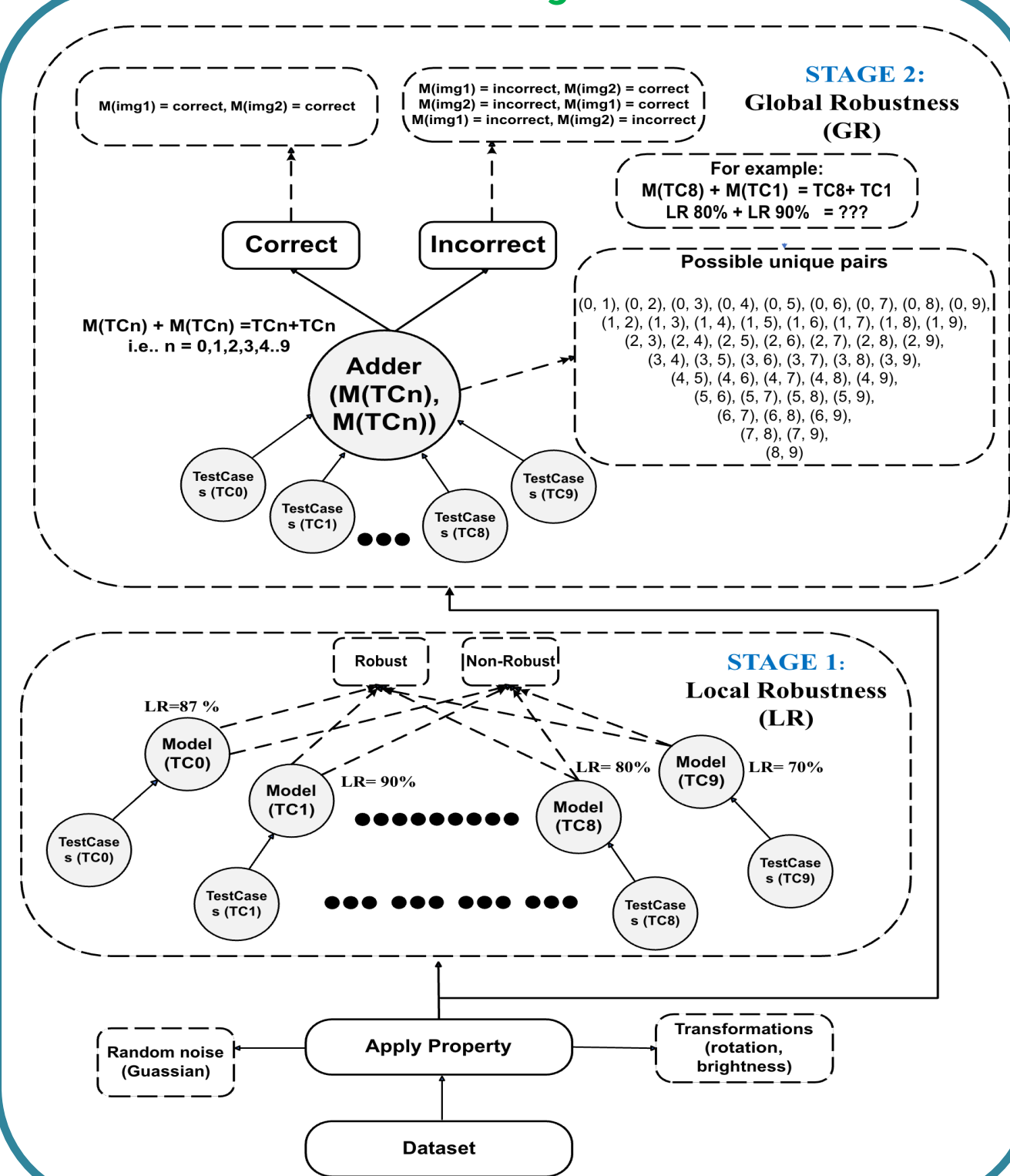
Challenge: no proper criteria for **error summarization** to identify weakness



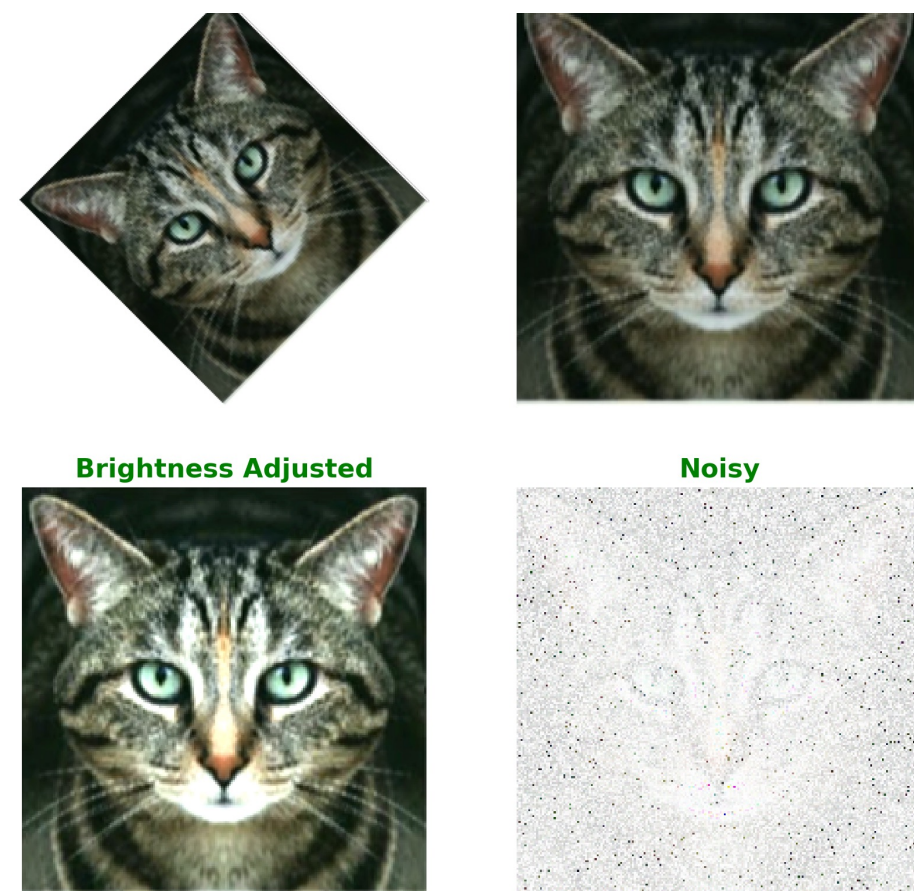
Idea: comprehensive testing **framework** for DL applications



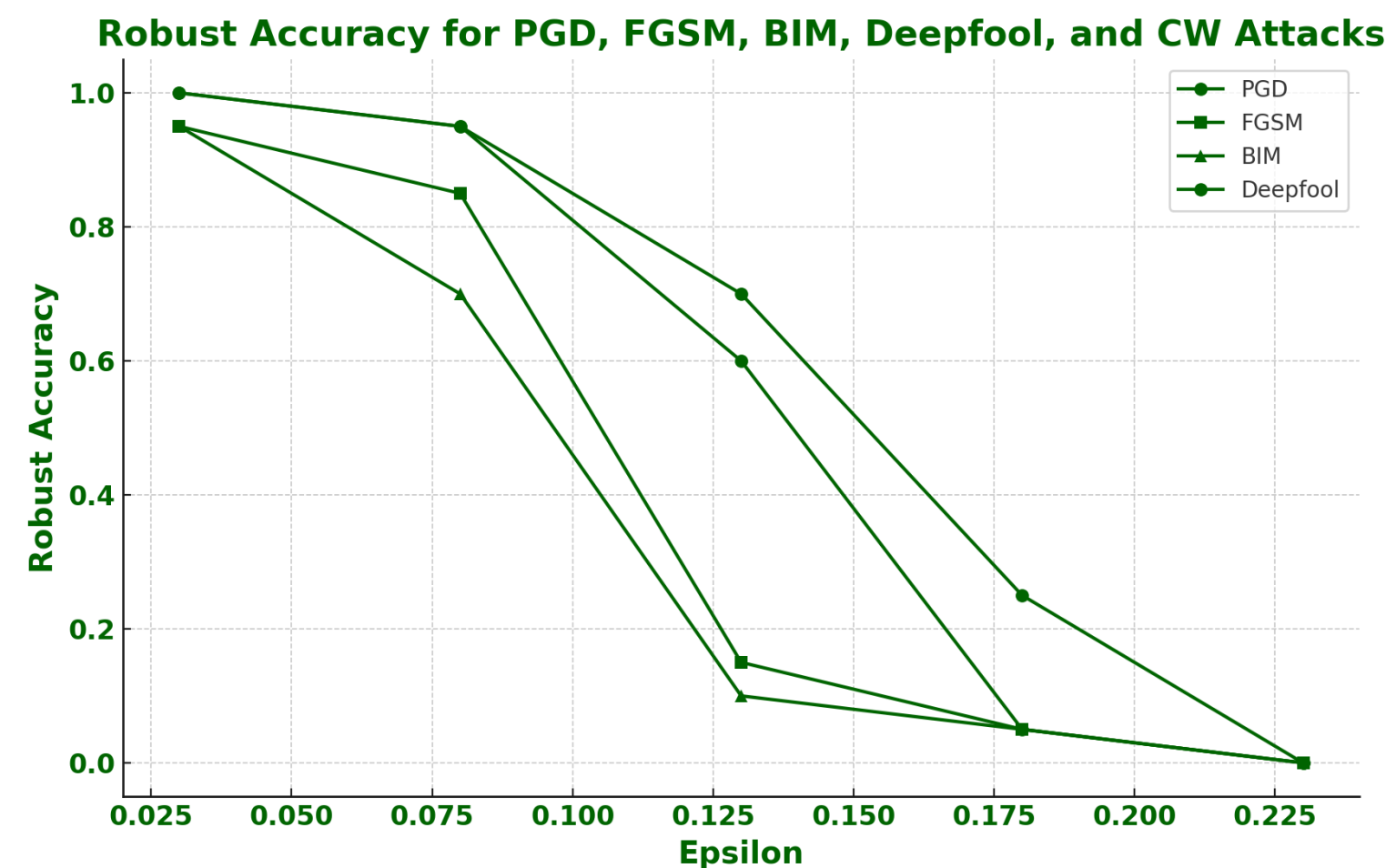
Goal : evaluate **local to global** robustness



Result 1: generate test cases according to specification



Result 2: system robustness affected by different perturbations



Result 3: evaluate local robustness with rotation property

