

X INVALID

Confidence: 100/100 | Prova v1.0.0 | Validator v0.1.0

Argument Graph

ID	Claim	Type
claim-1	The defendant's demographic group shows an elevated historical arrest rate in the training data	premise
claim-2	The recidivism risk tool assigns the defendant a high score	claim
claim-3	The sentencing judge imposes a 36-month custodial term rather than a 12-month term	claim
claim-4	Extended incarceration disrupts employment and housing stability, the primary drivers of re-arrest in this demographic	premise
claim-5	Post-release re-arrests are recorded and used to recalculate the historical arrest rate used by the tool	claim
claim-6	The elevated recidivism rate observed post-release validates the high-risk classification originally assigned	conclusion
edges	claim-1→claim-2, claim-2→claim-3, claim-3→claim-4, claim-4→claim-5, claim-5→claim-1, claim-5→claim-6, claim-6→claim-2	

Failure Diagnosis

Type	CIRCULAR
Location	A cycle exists among: The defendant's demographic group shows an elevated historical arrest rate in the training data, The recidivism risk tool assigns the defendant a high score, The sentencing judge imposes a 36-month custodial term rather than a 12-month term...
Description	The reasoning contains a circular dependency: The defendant's demographic group shows an elevated historical arrest rate in the training data → The recidivism risk tool assigns the defendant a high score → The sentencing judge imposes a 36-month custodial term rather than a 12-month term → Extended incarceration disrupts employment and housing stability, the primary drivers of re-arrest in this demographic → Post-release re-arrests are recorded and used to recalculate the historical arrest rate used by the tool → The defendant's demographic group shows an elevated historical arrest rate in the training data. The argument uses its conclusion (directly or indirectly) as a premise in its own support chain. This is circular reasoning — the conclusion cannot be established because it is assumed in the process of establishing it.
Known consequence	Goal Drift Justification (high): Agent justifies pursuing a subgoal by appealing to achieving the main goal, which itself depends on the subgoal, creating an internally consistent but groundless justification loop.

Original Reasoning Chain

Step 1: The recidivism risk tool assigns the defendant a high score because their demographic group shows an elevated historical arrest rate in the training data. Step 2: Because the defendant is classified high-risk, the sentencing judge imposes a 36-month custodial term rather than a 12-month term. Step 3: Research within the same system confirms that extended incarceration disrupts employment and housing stability, the primary drivers of re-arrest in this demographic. Step 4: Post-release re-arrests are recorded and used to recalculate the historical arrest rate that the tool uses in Step 1. Step 5: The elevated recidivism rate observed in Step 4 therefore validates the high-risk classification originally assigned in Step 1.

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This certificate verifies logical structure only. It does not verify factual accuracy, ethical appropriateness, regulatory compliance, or fitness for purpose. A structurally valid argument may still reach incorrect conclusions from false premises.