

DANE Early GDP Estimator — Colombia's ML agricultural nowcasting model

AI in the Public Sector · Good practice · Colombia

Quality score: 60/100

Evidence strength: Observational / pre–post

Summary

Colombia's DANE uses Ridge regression on Google Trends and news data to estimate agricultural GDP 30 days before official publication. The Q2 2022 benchmark reached 8,188 billion COP, with Ridge achieving the lowest prediction error among all methods tested.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	2/3
Transparency, fairness & accountability	2/3
Transferability / demonstrated replication	1/3
Scalability beyond pilot	2/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-06-25

[Departamento Administrativo Nacional de Estadística \(DANE\)](#) — accessed 2026-06-25

[Data4SDGs case study](#) — accessed 2026-06-25

[SciELO peer-reviewed article \(Estudios de Economía\)](#) — accessed 2026-06-25

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