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CLIMATE REPORTING AND SCORING

Deloitte's Climate Reporting & Scoring accelerator — built on Google Cloud — is a Generative Artificial Intelligence (GenAI) and Machine Learning (ML) tool designed to intake climate reporting standards and guidelines and score a company on its compliance based on generated evaluation criteria.

KEY ISSUES

Agencies encounter significant hurdles in extracting, standardizing, and evaluating data, especially when dealing with complex regulatory requirements. The challenge lies in ensuring data quality across diverse sources while maintaining efficiency, often requiring specialized expertise to achieve high compliance standards.

Data aggregation

Climate reports vary in format with each organization using its own unique terminology and reporting framework; this lack of standardization makes it difficult to extract the relevant data and map it to a consistent set of evaluation criteria.

Evaluation obstacles

Scoring climate performance often requires evaluating qualitative information, such as descriptions of initiatives or risk assessments, which can be challenging to quantify objectively. Even with well-defined criteria, subjective interpretation of information can lead to inconsistencies in scoring and hinder fair comparisons between organizations.

Scaling and expertise limitations

Evaluating climate reports often effectively requires a unique blend of expertise in climate science, policy, and data analysis. Employees with this unique skillset are ideally focusing on strategic, high-level analysis rather than completing tedious, manual tasks to compile data.

PROPOSED SOLUTION OUTLINE

Deloitte's Climate Reporting & Scoring accelerator — built using Google Cloud's Vertex AI platform — empowers organizations to efficiently assess climate action by automating the complex process of defining evaluation criteria, generating targeted questions, and creating scoring rubrics directly from regulatory guidelines. This empowers governments to efficiently assess climate performance and drive impactful decisions through every phase of the project:

Assessment

Assess and understand the state regulator's implementation guidelines; ingest regulatory guidelines and reporting documents

Implementation

Use a specialized LLM to create questions to evaluate guideline/policy implementation and a rubric to score questions and implementation. Leverage a Retrieval-Augmented Generation (RAG) application to ingest documents and score against the criteria.

Validation and refinement

Validate scoring using historic scores made by a state regulator and establish key performance indicators. Visualize data via a reporting dashboard and fine tune measurement techniques.

ANTICIPATED ADVANTAGES

Standardizes data for the evaluation process to reduce manual compilation efforts and provide consistent analysis

Increases efficiency by reducing time required for evaluation and increase bandwidth of skilled workers

Reduces risk by mitigating errors and inconsistencies caused by manual interpretation

Decreases bias using an objective scoring rubric to reduce human subjectivity and score discrepancies

Provides high quality insights into climate related risk assessments to improve processes and compliance

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