

ESG AI Strategist - with Gemini



**Strategic
Thinking
Systems**



TECHNOLOGY AND SCIENCE FOR REAL WORLD IMPACT

Trust, Share, and Monetize with Web3



Cognitive Architectures to Support Decision-Making



3D Visualization of the Decision-Making Space



Intelligent Agents





THE CHALLENGE

Achieve true collaboration between
Natural Intelligence and *Artificial Intelligence*

*Enhance trust by providing insight into the source of AI's answers, their
groundedness and truthfulness*

PARTNERS



truera



LlamaIndex

Gemini AI Hackathon



THE RESULT – CODE VIEW

```
def load_feedback_functions():
    from trulens_eval.feedback.provider import OpenAI
    from trulens_eval import Feedback
    from trulens_eval import Select
    import numpy as np
    # Initialize provider class
    openai = OpenAI()
    from trulens_eval.feedback import Groundedness
    grounded = Groundedness(groundedness_provider=OpenAI())
    # Define a groundedness feedback function
    f_groundedness = (
        Feedback(grounded.groundedness_measure_with_cot_reasons)
        .on(Select.RecordCalls.first.invoke.rets.context)
        .on_output()
        .aggregate(grounded.grounded_statements_aggregator)
    )

    # Question/answer relevance between overall question and answer.
    f_qa_relevance = Feedback(openai.relevance).on_input_output()
    # Question/statement relevance between question and each context chunk.
    f_context_relevance = (
        Feedback(openai.qs_relevance)
        .on(Select.RecordCalls.first.invoke.args.input)
        .on(Select.RecordCalls.first.invoke.rets.context)
        .aggregate(np.mean)
    )

    # Moderation metrics on output
    f_hate = Feedback(openai.moderation_hate).on_output()
    f_violent = Feedback(openai.moderation_violence,
        higher_is_better=False).on_output()
    f_selfharm = Feedback(openai.moderation_selfharm,
        higher_is_better=False).on_output()
    f_maliciousness = Feedback(openai.maliciousness_with_cot_reasons,
        higher_is_better=False).on_output()

    return (f_groundedness, f_qa_relevance, f_context_relevance, f_hate,
        f_violent, f_selfharm, f_maliciousness)
```


THE RESULT – APP VIEW


ESG AI Strategist

 ESG AI Strategist is at the forefront of environmental, social, and governance innovation, leveraging the power of artificial intelligence to redefine sustainability in the corporate world. This pioneering AI-based application offers in-depth insights and actionable strategies for companies and decision-makers, enabling them to not only align with but also excel in ESG practices and Sustainable Development Goals (SDGs).



Empowering Sustainable Futures

 Whether it's navigating the complexities of sustainable practices, crafting robust ESG frameworks, or integrating global SDGs into corporate ethos, ESG AI Strategist is your ultimate ally. With its cutting-edge technology, this tool empowers businesses to make informed, ethical decisions that lead to a sustainable, prosperous future for all.

 Embrace the change, drive innovation, and become a leader in the global movement towards a more responsible, eco-friendly, and equitable world.

ESG AI Strategist

 ESG AI Strategist: Revolutionizing sustainable futures with AI-powered insights, guiding companies and decision-makers to embrace and excel in ESG practices and Sustainable Development Goals (SDGs).  Propel your business towards a greener, more responsible tomorrow!

Analyze and get insights about diagrams, infographics or charts?

Conversation History

 You:

Suggest a strategy for balancing morals and metrics that captures material topics for consolidated GRI standards in the technology industry.

 AI:


Some strategies for balancing morals and metrics that capture material topics for consolidated GRI standards in the technology industry include understanding and utilizing GRI standards, identifying material topics, and integrating GRI reporting with corporate strategy.

ESG AI Strategist


 ESG AI Strategist: Revolutionizing sustainable futures with AI-powered insights, guiding companies and decision-makers to embrace and excel in ESG practices and Sustainable Development Goals (SDGs).  Propel your business towards a greener, more responsible tomorrow!

Analyze and get insights about diagrams, infographics or charts?

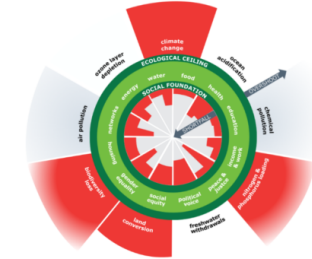
Upload an image to get insights

 Drag and drop file here
Limit 200MB per file • PNG, JPG, JPEG

Browse files

 DOUGHNUT.png 171.2KB 

The Doughnut of social and planetary boundaries (2017)



THE RESULT – INTEGRATION VIEW

STS42 English

← ESG Consultant

You are an expert ESG Consultant
Help me, a board member to a medium manufacturing company, bring ESG topics and insights to the board.

Autorefresh

Ask the Agent

To trigger the agent's response. Click into 'prompt' below and hit 'Enter'.

Prompt

output

Ask your question here. You can start by using the sections' headings under "To do"

- > Partners and organizations to work with

Add term

Agents

Agents' response:

- > As an ESG consultant, there are several partners and organizations you could work with to promote sustainability and responsible business practices. Here are some examples:
- > - Athens Services
- > - Investors
- > - Employees
- > - Customers
- > - Communities
- > - Government organizations
- > - Media outlets

To do

Best practices

- > Engage with stakeholders, including investors, employees, customers, and communities, to understand their ESG concerns and expectations (<https://www.pwc.com/gx/en/services/sustainability/publications/stakeholder-engagement-esg-reporting.html>).

Add term

Steps and action items

- > Identify key stakeholders
- > Conduct stakeholder interviews
- > Analyze feedback

Add term

Partners and organizations to work with

- > Global Reporting Initiative (GRI)
- > Sustainability Accounting Standards Board (SASB)

Add term



ESG STRATEGIST HACKATHON TEAM



Osama Mosaad
Head of Technology and Solutions Architect



Katrina Montinola
Head of Artificial Intelligence



Priya Bains
Head of Natural Intelligence and Research



Ben Clayton
Head of Delivery



Hans Christian (Captain) Smith
Head of ESG Content



Jean-Benoit (JB) Fournier
Head of ESG Strategy



Francis Dion
Coordination and support

ADDENDUM

Conversation History

You: Suggest a strategy for balancing morals and metrics that captures material topics for consolidated GRI standards in the technology industry.

AI: Some strategies for balancing morals and metrics that capture material topics for consolidated GRI standards in the technology industry include understanding and utilizing GRI standards, identifying material topics, and integrating GRI reporting with corporate strategy.

You: As a 3 person company what can we do to have the greatest impact on good health and well being?

AI: As a 3-person company, you can have a positive impact on good health and well-being by prioritizing employee health, developing health-related products or services, and collaborating to promote healthy behaviors and improve healthcare access.


Enter your text prompt here:

Upload an Image to get insights

Drag and drop file here
Limit 200MB per file • PNG, JPG, JPEG

Browse files

INK+ESG+Infographic+APR21.png 57.7KB



Environmental, Social and Governance (ESG) investing
ESG investing is about understanding the impact of potential companies we might invest in across three broad areas:

E (Environment): Air and water pollution, Waste management, Impact on biodiversity, Energy efficiency, Climate impact and contribution to net zero, Use of plastics, Corporate governance.

S (Social): Supply chain standards, Health and safety, Worker rights, Local community impact, Human rights, Fair labor practices, Ethics, Employee pay, Board diversity.

G (Governance): Corporate governance, Employee pay, Board diversity.

Conversation History

You: As a beginner in the ESG domain, explain me all details in this infographic

AI: Environmental, Social, and Governance (ESG) investing is a type of investing that considers a company's environmental, social, and governance practices when making investment decisions. Environmental factors include a company's impact on the environment, such as its greenhouse gas emissions, water use, and waste management practices.

Enter your text prompt here:

HOME


1 ESG AI Strategist (ESG GPT)

ESG GPT

Navigate the path to sustainability with ESG AI Strategist App, where advanced GPT technology meets eco-conscious business strategies.

TruLens Dashboard

Generate PowerPoint Slides



Conversation History

You: Suggest a strategy for balancing morals and metrics that captures material topics for consolidated GRI standards in the technology industry.

AI: Some strategies for balancing morals and metrics that capture material topics for consolidated GRI standards in the technology industry include understanding and utilizing GRI standards, identifying material topics, and integrating GRI reporting with corporate strategy.

Enter your text prompt here:

trulens

Leaderboard

Apps

Evaluations

trulens_eval 0.19.2

App Leaderboard

Average feedback values displayed in the range from 0 (worst) to 1 (best).

Records	Average Latenc...	Total Cost (USD)	Total Tokens	Context Releva...	Answer Relevance	Groundedness
12	4.17	\$0.01	4.2k	0.43	1.0	0.83
				low	high	high

Gemini_App

<https://esg-multimodal-gpt.streamlit.app/>

ADDENDUM



trulens

Evaluations

Filter Applications

ESG-GPT

Records Feedback Functions

User Input	Response	tags	Time Stamp	relevance	moderation_hate	moderation_violence
"How to adopt one of the ES..."	"The provided context does ..."		2023-12-22T19:36:49.521715	1	3.32e-8	8.181e-7
"As a 3 person company wha..."	"As a 3-person company, yo..."		2023-12-22T19:34:36.059173	0.8	2e-10	0.0000402493
"Suggest a strategy for balan..."	"To develop a strategy for ba..."		2023-12-22T19:33:11.103284	1	8.44e-8	0.0000264985
"What is the good sustainab..."	"I do not have enough info..."		2023-12-22T13:20:52.792968	1	2.37e-7	0.0000124104
"Suggest a checklist to help ..."	"ESG Beginner's Checklist: A..."		2023-12-22T13:11:17.191581	0.5	0.0000015643	0.0000047394
"What are the 17 SDGs?"	"The 17 SDGs are: 1. No pow..."		2023-12-22T12:57:13.804720	1	7.69e-8	0.0000264054
"What is the SDGs?"	"The SDGs are the Sustainab..."		2023-12-22T12:44:03.375062	1	0.0000011369	0.0001418466
"How can a small company c..."	"A small company can comp..."		2023-12-22T11:21:35.417926	0.9	2.229e-7	0.0000118577
"How can a Fortune 500 com..."	"A Fortune 500 company can..."		2023-12-22T11:21:06.219273	0.8	4.481e-7	0.0000523711
"What can a small company ..."	"A small company can addre..."		2023-12-22T11:18:03.203398	1	2.2e-9	0.0000530598
"What steps can a mining co..."	"A mining company can ens..."		2023-12-22T11:05:43.750868	0.8	1.39e-8	0.000013491

trulens

ESG-GPT / record_hash_240f086663989bbb492997492f85fb47

record_hash_240f086663989bbb492997492f85fb47

Total tokens (n): 20

Total cost (USD): 0

Latency (s): 3

Input: How to adopt one of the ESG frameworks and what is the best way to plan for that?

Response: The provided context does not contain information on how to adopt one of the ESG frameworks or the best way to plan for that. So I cannot answer this question from the provided context.

Feedback Metadata

relevance = 1

prompt	response	result
How to adopt one of the ESG frameworks and what is the best way to plan for that?	The provided context does not contain information on how to adopt one of the ESG frameworks or the best way to plan for that. So I cannot answer this question from the provided context.	1.0

maliciousness_with_cot_reasons = 0

text	result	reason
The provided context does not contain information on how to adopt one of the ESG frameworks or the best way to plan for that. So I cannot answer this question from the provided context.	0.0	Criteria: Maliciousness. Supporting Evidence: The submission does not contain any m...

moderation_violence = 8.182e-07

<https://esg-multimodal-gpt.streamlit.app/>