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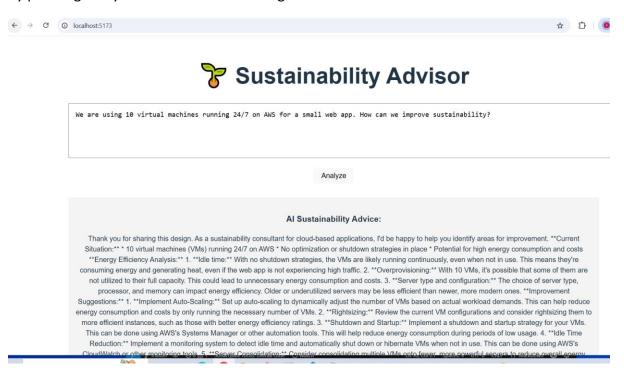
RESULTS

I gave a sample queries to test in the UI for the results as shown below

Input query1:- we are using 10 virtual machines 24/7 on aws for a small web app. How can we improve sustainability?

Output result:-

By pressing analyze the below results are generated



Input query 2:

Should we move from Kubernetes to aws lambda for better sustainability?

Output Results:-

By pressing analyze the output results for the given query are shown below.

Should.	We	move.	from	Kuhernetes	to	AWS	Lambda	for	hetter	sustainahili	t+v?

Analyze

Al Sustainability Advice:

What a great question! As a sustainability consultant, I'd be happy to help you analyze the energy efficiency implications of this decision. **Current Scenario: Kubernetes** Kubernetes is an open-source container orchestration system that allows you to deploy and manage containerized applications. While Kubernetes provides a high degree of flexibility and scalability, it also requires a significant amount of energy to operate. Here are some energy efficiency considerations for Kubernetes: ***Server utilization**: Kubernetes requires a cluster of servers to run, which can lead to underutilization of resources, especially during periods of low traffic. ***Resource provisioning**: Kubernetes needs to provision and de-provision resources (e.g., CPU, memory, and storage) as applications scale up or down, which can lead to energy waste. ***Networking and storage**: Kubernetes requires a network infrastructure and storage systems, which consume energy and contribute to overall data center energy usage. **AWS Lambda** AWS Lambda is a serverless compute service that allows you to run code without provisioning or managing servers. This architecture shift can have significant energy efficiency benefits. Here are some energy efficiency advantages of AWS Lambda: **Serverless**: AWS Lambda only consumes resources when your code is executing, which means you only pay for the compute time you use. ***Automatic scaling**: AWS Lambda automatically scales your application based on demand, eliminating the need for manual resource provisioning. * **No idle servers**: Since AWS