Help people find cities they would love to live in!

Context

While the motivation for those moving from one state to another varies -finding better employment, moving closer to family, or retirement/lifestyle reasons- there has been a recent trend of people moving to southern states [1]. States like Florida, Georgia, Tennessee are seeing an increase in their population partly due to residents leaving states like New York, Massachusetts, and California. To capitalize upon this, Google wants to build an app that allows users to swipe through images of random cities and choose which images appeal to them. The app would then show other cities with similar features. Thus, Google can recommend cities in which the user should move to based on the images chosen. To build such a comprehensive app, Google needs to be able to identify a city based on its own features.

Task

You are a recently hired data scientist placed on this project at Google. You have been tasked with extracting features out of image data of Boston, these features would be unique to Boston and could be used to compare Boston with other cities. You have a meeting scheduled with a Google executive and your being asked to pitch them how to well your model works at extracting Boston's unique features.

Prompt

Build a feature extracting model that when fed images of a Boston, can find features unique to it. Then, present the performance of the model to a Google executive.

References

[1] S. Allen, D Biermeir, "10 States People Are Fleeing and 10 States People Are Moving To," www.forbes.com, Spe. 4 2023. [Online]. Available: https://www.forbes.com/home-improvement/features/states-move-to-from/. [Accessed Dec. 10, 2023]

[2] M. Curry, "Image Recognition Applied To City Photos" [Online]. Available: https://www.currymichael.com/city.[Accessed Oct. 16, 2023].