Calculating the Nearest Travel Distance from Residential Addresses to Emergency Rooms

I used the Google Maps API to ensure accurate, real-time data. I converted residential addresses into geographic coordinates to pinpoint their **exact location.**

Then, using these coordinates, I could identify emergency rooms within a specific radius around them. This allowed me to calculate the **travel distance and duration from random residential locations to their nearest emergency rooms.**

I used the Google Maps API *rather than any other external database/source*, as it **allows for keyword searches within its parameters and returns detailed information about the closest locations. (it is also free for Maps Embed Requests)**

Conclusion:

Urban areas like NYC traditionally have **shorter distances to emergency services due to the higher density of these facilities,** whilst **rural areas often have significantly longer distances.**