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LA Hospital Finder

The goal of this project is to create a web scraping tool that finds and visualizes the medical services offered and insurance providers accepted by various hospitals across Los Angeles. Different hospitals offer different services to patients (e.g., radiology, dermatology, dentistry), but it can often be difficult to find exactly what services are offered where and which hospitals near you count as in-network for your specific insurance provider. Our project aims to fix this by pulling data from hospital websites to identify what services are offered and which insurance providers are accepted, and then visualizing all this on a filterable map.

We will begin by searching for and collecting links to every hospital website in LA. Then, we will navigate to the tabs that show the services offered and the insurance providers accepted. We will then use the Inspect tool to find the names of the service. Then, by using an HTML parsing for loop, we will compile all the services and providers into a list before exporting it as a CSV.

After collecting our data, we will run a density-based analysis identifying what parts of LA are underserved for specific services and/or by certain insurance providers. We will also produce a map (using either the GeoPandas library or ArcGIS) that displays all the hospitals in LA and can be filtered to show only those that offer specific services and/or accept certain insurance providers.