Through learning Python requests, APIs, and JSON traversals, you gained the ability to fetch and analyze weather data to answer the question, "What is the weather like as we approach the equator?" Using the requests library, you can make HTTP requests to weather APIs, extract JSON data, and parse it to obtain temperature and latitude information. By plotting this data, you can visually confirm the hypothesis that temperatures increase as you approach the equator, demonstrating the power of data-driven analysis in proving fundamental concepts.