

Module 6

Looking Ahead

In this module, you'll practice your analysis, visualization, and statistical skills by retrieving and analyzing weather data for a hypothetical travel company, PlanMyTrip. Successfully completing the tasks will draw on your knowledge of Python, decision and repetition statements, data structures, Pandas, Matplotlib, and SciPy statistics.

What You Will Learn

By the end of this module, you will be able to:

- Perform tasks using new Python libraries and modules.
 - Retrieve and use data from an API "get" request to a server.
 - Retrieve and store values from a JSON array.
 - Use `try` and `except` blocks to resolve errors.
 - Write Python functions.
 - Create scatter plots using the Matplotlib library, and apply styles and features to a plot.
 - Perform linear regression, and add regression lines to scatter plots.
 - Create heatmaps, and add markers using the Google Maps API.
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Planning Your Schedule

Here's a quick look at the lessons and assignments you'll cover in this module. You can use the time estimates to help pace your learning and plan your schedule.

- Introduction to Module 6 (1 hour)
- Generate Random Coordinates of World Cities (1–2 hours)
- Retrieve, Collect, and Clean Weather Data (1–2 hours)
- Plot Weather Data (1–2 hours)

- Determine Correlations (2–3 hours)
- Use a Google API to Create Heatmaps (2–3 hours)
- Application (5 hours)

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