

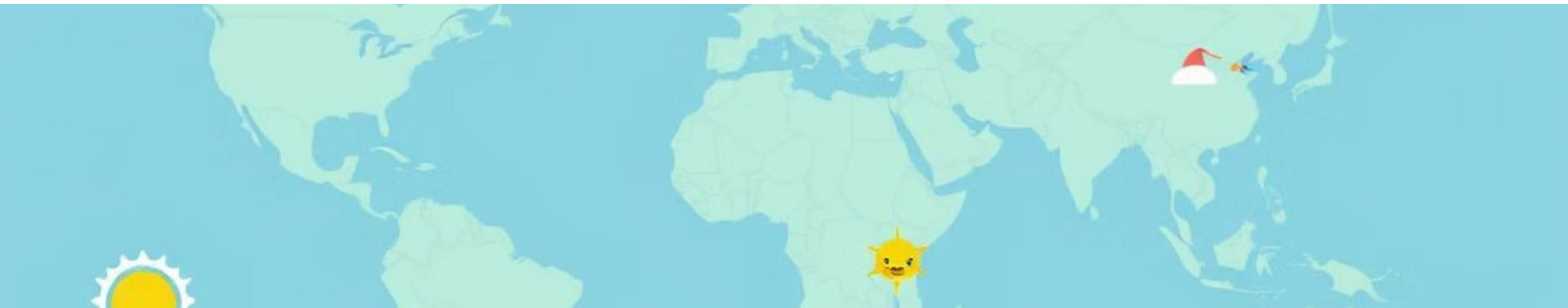


Unlocking Business Insights with Weather Data

GROUP -9

PROBLEM STATEMENT

Identifying the key environment factors that most significantly influence weather classification into types like Rainy, Cloudy and Sunny.



Understanding Data Analysis Types

Univariate Analysis

Examines a single variable at a time. This can reveal trends, patterns, and distributions.

Bivariate Analysis

Explores the relationship between two variables. This can reveal correlations and dependencies.

Multivariate Analysis

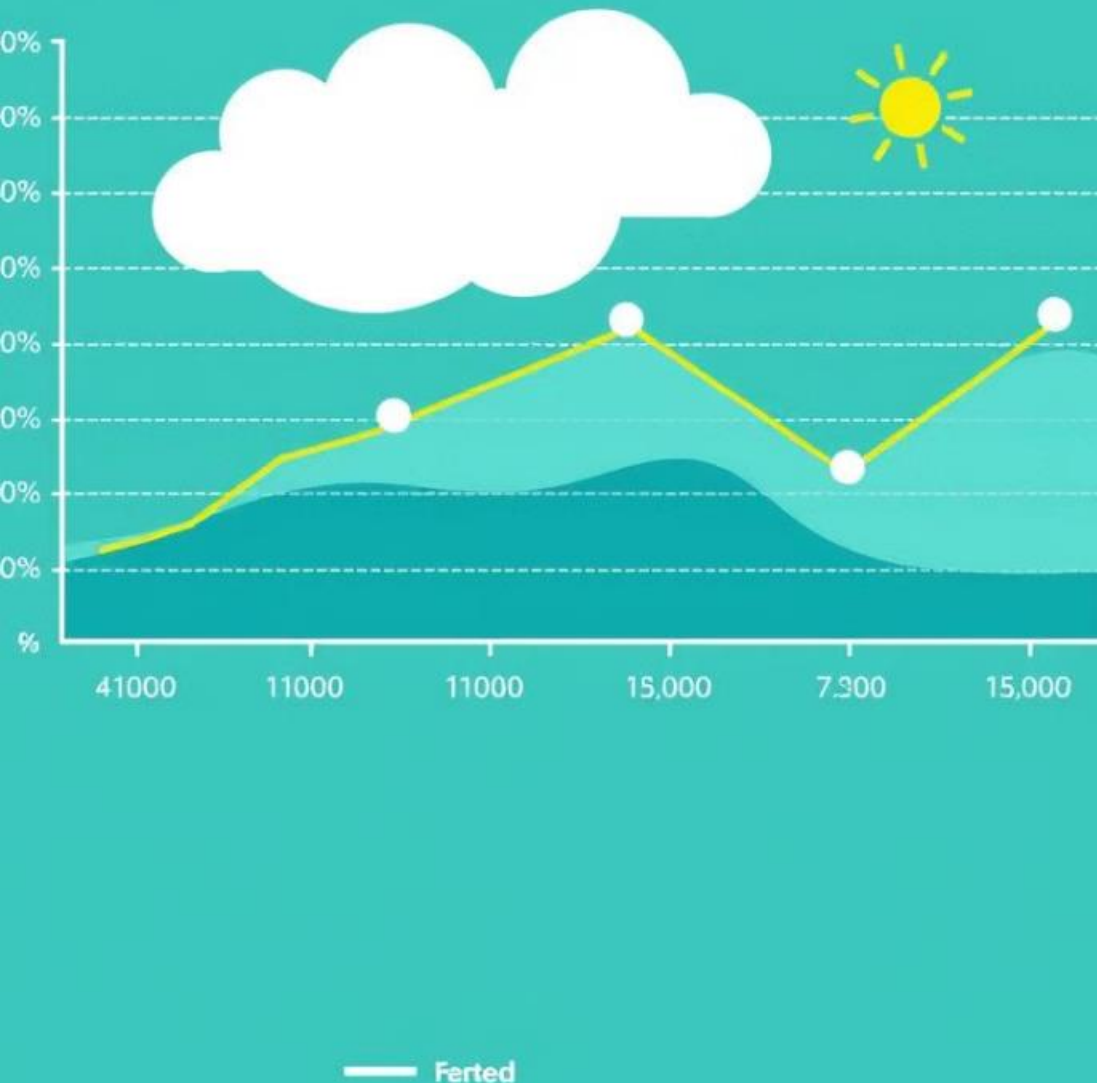
Analyzes the relationship between multiple variables. This can reveal complex interactions and insights.



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Univariate Analysis Examples

1 Average Temperature

Sunny days are typically the warmest, followed by rainy, cloudy, and snowy days.

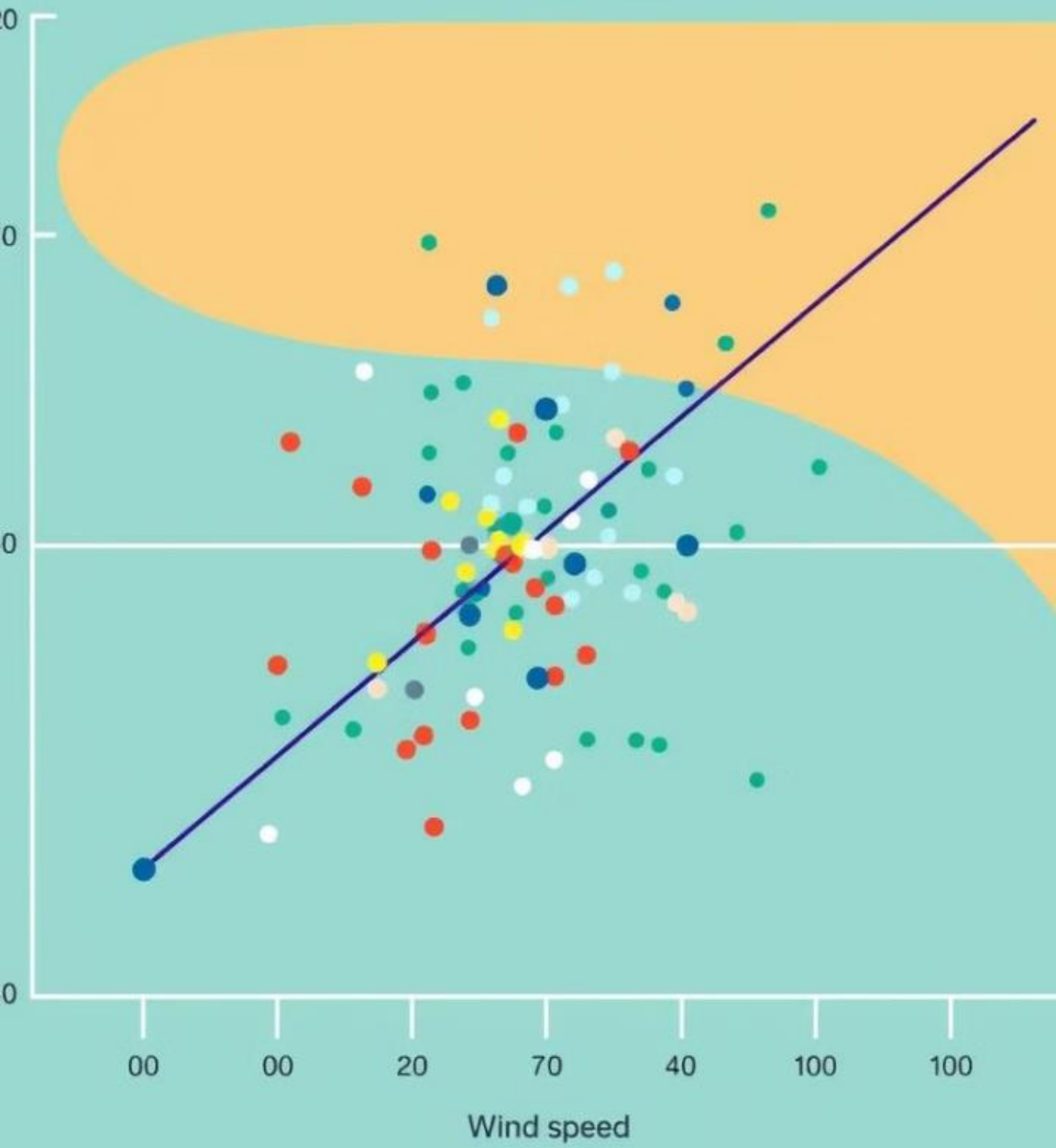
2 Atmospheric Pressure

Atmospheric pressure varies across weather types and months, with snowy days having lower pressure.

3 Humidity Levels

Snowy days tend to have the highest humidity, followed by cloudy, rainy, and sunny days.

What to place



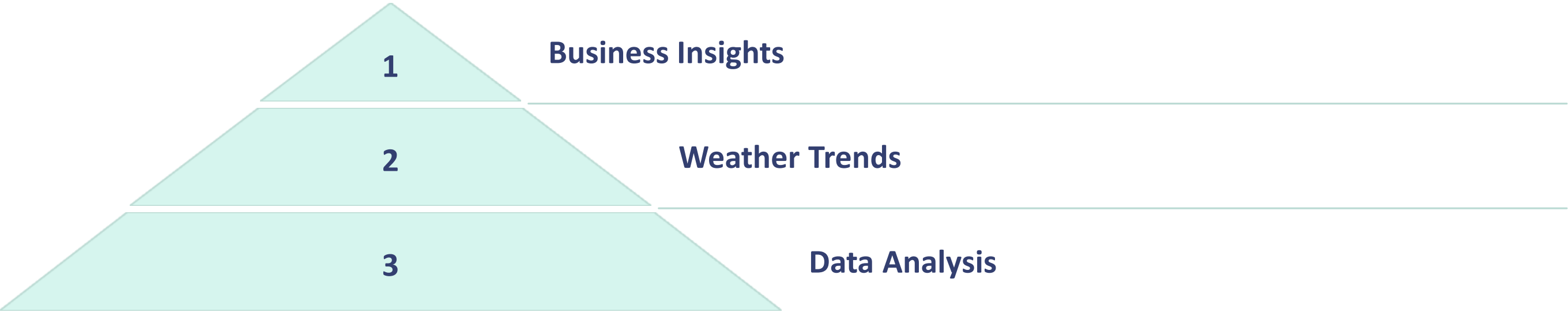
Bivariate Analysis Example



Wind Speed

Rainy days have the highest wind speed, followed by cloudy, sunny, and snowy days.

The Power of Multivariate Analysis





Impact on Businesses

Tourism

Plan promotions during sunny periods or offer deals during rainy seasons.

Agriculture

Predict weather patterns and plan crop cycles, accordingly, preparing for potential droughts or floods.

Construction

Plan outdoor activities based on weather forecasts, avoiding scheduling during rain or wind.

Real-World Benefits

1

Risk Management

Identify potential risks associated with extreme weather events and take steps to mitigate them.

2

Operational Efficiency

Optimize operations by adjusting schedules and resource allocation based on weather conditions.

3

Marketing & Sales

Tailor strategies to specific weather conditions, promoting outdoor activities during sunny periods or offering discounts on winter clothing during cold periods.



Key Takeaways & Next Steps

1

Utilize Data

Harness the power of weather data to make informed decisions.

2

Strategic Planning

Plan and adjust operations based on weather forecasts.

3

Embrace Innovation

Continuously explore new ways to leverage weather insights.

Dashboard

