

Weather Conditions Dashboard

Slide 1: Title Slide

- **Title:** Weather Conditions Dashboard
 - **Subtitle:** Analyzing Global Weather Data by Key Metrics
 - **Introduction:**
 - This dashboard provides a comprehensive visualization of weather data, including temperature, humidity, pressure, wind speed, and rainfall distribution.
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Slide 2: Overview

- **Purpose:**
 - To analyze weather trends across various locations using aggregated metrics.
 - **Key Metrics:**
 - **Sum of Max Temperature:** 3.35M
 - **Sum of Min Temperature:** 1.76M
 - **Pressure (3 PM & 9 AM):** 132.42M and 132.70M
 - **Wind Gusts:** Peaks at 100 km/h.
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Slide 3: Visualizations

1. **Location and Rainfall Map**
 - **Global Perspective:**
 - Rainfall distribution is color-coded and mapped to highlight regional differences.
 - Dots indicate data points worldwide, with detailed focus on **Australia**.
 2. **Pie Chart: Humidity at 3 PM by Location**
 - Visualizes location-wise contributions to overall humidity.
 - Locations like **Sydney**, **Gold Coast**, and **Norfolk Island** dominate.
 3. **Bar Chart: Pressure at 3 PM by Location**
 - Displays pressure data for various cities, with **Woomera** and **Sydney** at the top.
 - Total pressure across all locations: **13.24M hPa**.
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Slide 4: Temperature Trends

- **Line Chart: Sum of Max and Min Temperature by Location**
 - **Key Observations:**
 - Max temperature (blue line) significantly exceeds min temperature (pink line) across all locations.
 - Cities like **Darwin**, **Cairns**, and **Sydney** exhibit consistent trends.
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Slide 5: Wind Speed Distribution

- **Pie Chart: Wind Speed at 3 PM by Location**
 - Highlights wind speed variations among cities like **Canberra**, **Sydney**, and **Adelaide**.
 - Useful for wind-related studies or renewable energy planning.
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Slide 6: Key Insights

1. **Temperature Trends:**
 - Max temperatures are consistently higher than min temperatures, with significant variations across cities.
 2. **Humidity and Rainfall:**
 - Locations with high rainfall often correlate with higher humidity levels.
 3. **Wind Gust Peaks:**
 - Extreme wind gusts reach speeds of up to **100 km/h**, influencing weather patterns and local activities.
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Slide 7: Applications

1. **For Weather Forecasting:**
 - Utilize pressure, wind, and rainfall data for predictive models.
 2. **For Policy Makers:**
 - Plan for climate adaptation and disaster preparedness in high-risk areas.
 3. **For Businesses:**
 - Use weather trends for sectors like agriculture, energy, and logistics.
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Slide 8: Closing

- **Summary:**

- This dashboard provides actionable insights into global weather patterns using key metrics.
- Combining temperature, pressure, humidity, and rainfall data allows for better decision-making across industries.