

Query:

Why do data scientists use more box plots than bar plots?

Response:

Box plots provide richer insights into data variability, outliers, and distribution compared to bar plots. By using box plots, data scientists gain a more nuanced understanding of their data, which is crucial for making informed decisions in analyses and modeling.

Interpret:

First, bar plots are extensively used in data science for visualizing aggregated data, especially categorical data (e.g., counts, proportions, or averages). Second, GPT did not provide strict, data-driven evidence to prove why box plots are used more frequently, such as research showing that 70% of data scientists use box plots while only 30% use bar plots. Instead, GPT's response analyzed the scenarios in which each plot is suitable, without offering concrete evidence to strictly justify why one is used more than the other.