Sravanthi

■ What is Hierarchical Data?■■■■Hierarchical data consists of elements arranged in a tree-like structure,

What Are Pixel-Oriented tuch. Techniques?

- Each attribute value is mapped to a color.
- Each data item is shown as a colored pixel.
- Pixels ar arranged in meaningful layours to show relationships or clusters.

Why Use It?

- Traditional plots (like bar charts or scofter plots) can't handle millions of data points effectively.
- Pixet-attented techniques let you visual or the entire. dataser at once.

⚠ Advantages

- Handles very large datasets
- Preserves complete information ino. aggregation oz sampiling)
- Easy to serrvisual pattems and anomaties

Pixel Bar Charts

Each dimension is represented a a bar.

Data I is la lout in a spiral format to highlight- periodic patterns.

Spiral Visualization

Data is laid out in a spiral format to highlight periodic patterns.

A recoursive division of space (like a free map).

Recursive Pattern

A recursive division or space (like a free map).

The circular layout is divided into leigments for different attributes or ttime perfords

Color Mapping

Colors indicate magnifude orcategory.

✖ Limitations

- ✖ Can be hard to interpret without proper training
- ✖ Not good for precisic numeric analysis
- ✖ Needs careful color mapping to avoid contision