| **Visualization Type** | **Chart Type (Tableau)** | **Iris Dataset Example** | **Adult Dataset Example** |
| --- | --- | --- | --- |
| **1D (Linear)** | Histogram, Bar Chart | Sepal Length distribution | Age distribution |
| **2D (Planar)** | Scatter Plot | Petal Length vs Petal Width | Age vs Hours-per-week |
| **3D (Volumetric)** | Scatter + Size/Color | Sepal Length vs Petal Width, color by Species | Age vs Education vs Income (color/size for Income) |
| **Temporal** | Line Chart, Area Chart | (N/A - no time field) | Income trend over time (if time column exists) |
| **Multidimensional** | Bubble Chart, Heatmap | All 4 features + color by Species | Age, Education, Hours-per-week + color by Income |
| **Tree/Hierarchical** | Tree Map | Species > Feature (e.g., Petal Length range) | Income > Occupation or Education |
| **Network** | Custom extension or plugin | (Not applicable – no node-edge structure) | (Not applicable – unless social or job relation exists) |