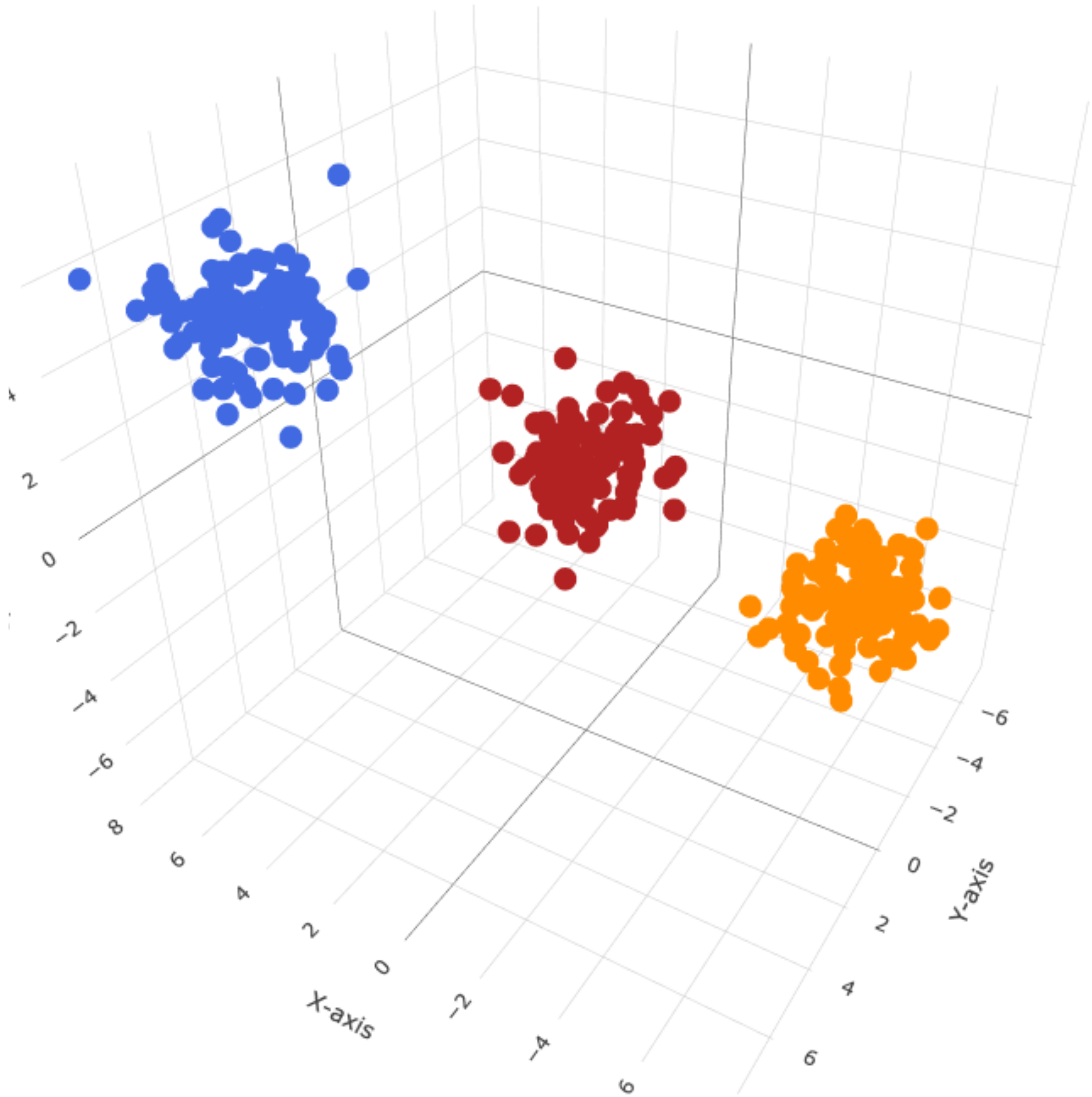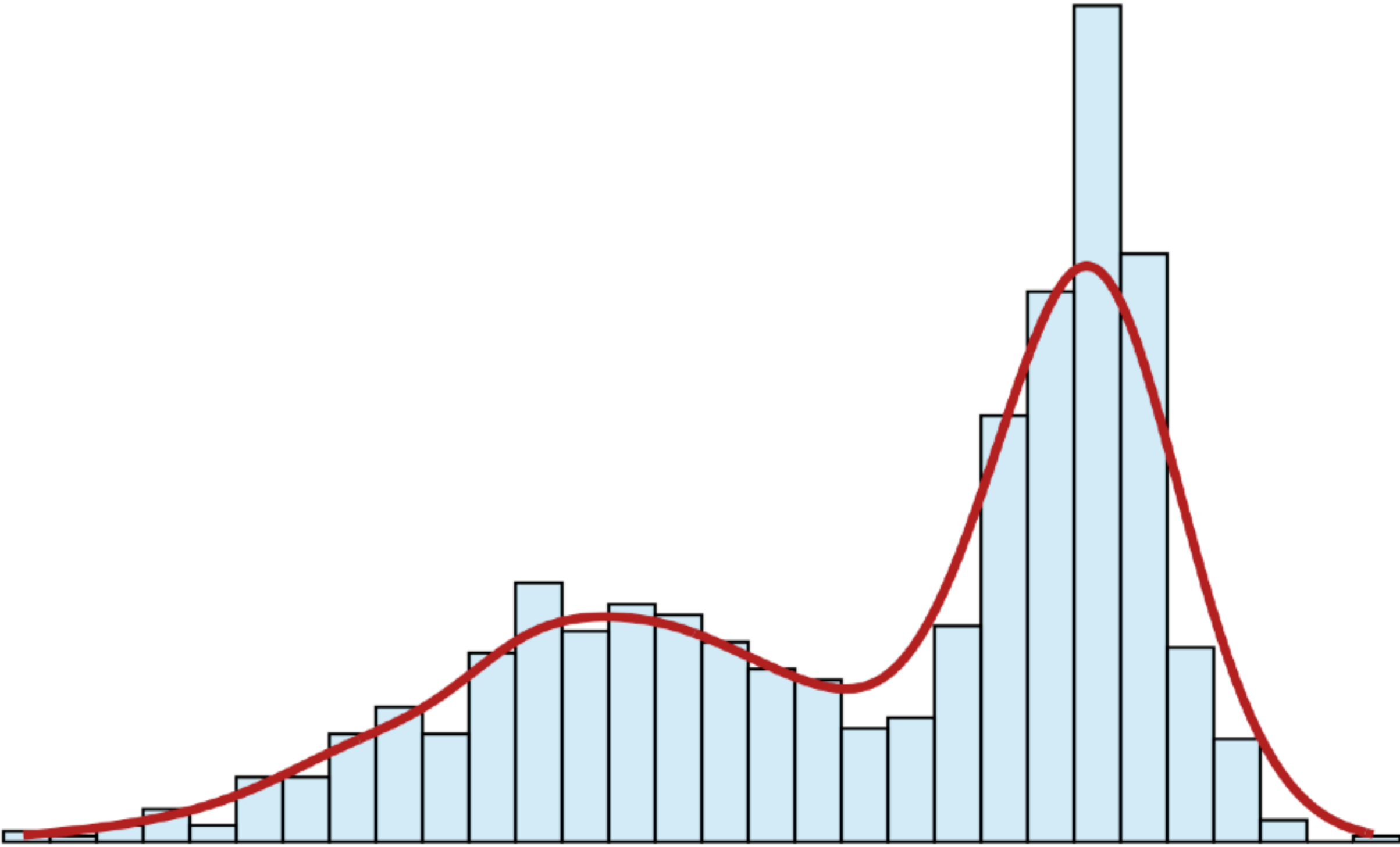# Multimodal Distribution

GMM

K-Means

- Hard assignment
- All variances are the same
- Roughly the same number of data points

GMM

- Soft (probabilistic) assignment
- Variances can be different
- Explicitly models number of data points