

# Gaussian mixture models – Lesson overview



## Learning objectives:

- Describe the concept of mixture models and how GMMs represent a probabilistic model for clustering.
- Differentiate GMMs from k-means clustering in terms of cluster assignment and flexibility.
- Explain the Expectation-Maximisation algorithm and its importance in optimising GMM parameters.
- Implement GMMs using scikit-learn to perform clustering on real-world datasets.



Video



Knowledge questions



Examples



Exercise

