

Experimental design and video collection



Motion tracking (DLC, SLEAP, SIPEC)



Supervised learning

1. Data labeling
2. Classifier training
3. Performance evaluation

Tools: SimBA, DeepOF, MARS



Unsupervised learning

1. Dimensionality reduction
2. Clustering
3. Cluster interpretation

Tools: DeepOF, VAME, B-SOiD, MoSeq



Active learning

Tools: A-SOiD



Pattern integration and downstream analysis