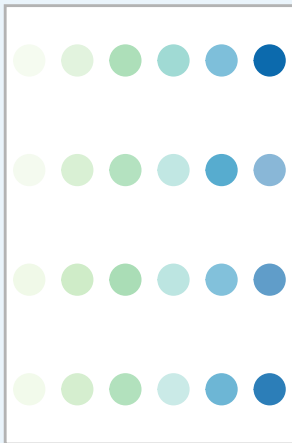


Supervised Learning

Input Data (Features)

Label



ML Model
(Random Forest)

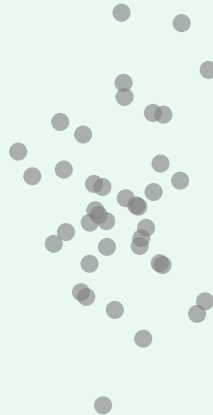
Predicted Labels



Goal: Predict labels for new data
Example: Classify tumors

Unsupervised Learning

Input Data (Unlabeled)



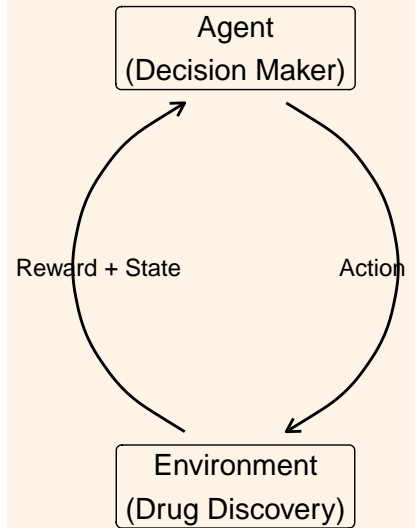
ML Model
(PCA / K-Means)

Output Clusters



Goal: Find hidden structure
Example: Identify cell types

Reinforcement Learning



Goal: Maximize reward
Example: Optimize dosage