

**What is classification?**

<https://machinelearningmastery.com/types-of-classification-in-machine-learning/>

[Lecture 6.1 — Logistic Regression | Classification — — [ Machine Learning | Andrew Ng]](https://www.youtube.com/watch?v=-la3q9d7AKQ)

**Methods review**

1. <https://medium.com/datadriveninvestor/classification-algorithms-in-machine-learning-85c0ab65ff4>
2. <https://medium.com/@jorgesleonel/classification-methods-in-machine-learning-58ce63173db8>
3. SVM:<https://towardsdatascience.com/support-vector-machine-simply-explained-fee28eba5496>
4. Logistic regression:
   * <https://towardsdatascience.com/logistic-regression-detailed-overview-46c4da4303bc>
   * <https://ml-cheatsheet.readthedocs.io/en/latest/logistic_regression.html>
   * [regularized logreg:](https://www.coursera.org/lecture/machine-learning/regularized-logistic-regression-4BHEy) https://www.coursera.org/lecture/ml-classification/l2-regularized-logistic-regression-DBTNt
5. KNN:<https://medium.com/@chiragsehra42/k-nearest-neighbors-explained-easily-c26706aa5c7f>

**Metrics**

1. <https://medium.com/thalus-ai/performance-metrics-for-classification-problems-in-machine-learning-part-i-b085d432082b>
2. Curves and AUCs: <https://machinelearningmastery.com/roc-curves-and-precision-recall-curves-for-imbalanced-classification/>
3. Cross-entropy:<https://towardsdatascience.com/understanding-binary-cross-entropy-log-loss-a-visual-explanation-a3ac6025181a>
4. Multi-class case:<https://www.coursera.org/lecture/python-machine-learning/multi-class-evaluation-1ugJR>

**Working with unbalanced data**

1. Working with Unbalanced Dataset  
   <https://towardsdatascience.com/working-with-unbalanced-dataset-8405465630d7>
2. Dealing with Imbalanced Data  
   <https://towardsdatascience.com/methods-for-dealing-with-imbalanced-data-5b761be45a18>

**Additional materials (\*):**

More interpretations of Logistic Regression:

<https://medium.com/@premvardhankumar/a-deep-understanding-of-logistic-regression-with-geometric-probabilistic-and-loss-minimization-2ced042bdcc7>