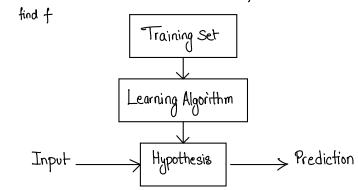
MACHINE LEARNING

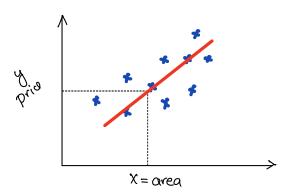
Machine Learning is field of study that gives computers the obility to learn without being explicitly programmed

Well-posed Learning Problem: A computer program is said to learn from experience E with respect to some task T and some performance measure P, if its performance on T, as measured by P improves with experience E

<u>Supervised Learning</u> Given a dataset (x,y) with input X and labels Y, find the relationship mapping $X \to Y$

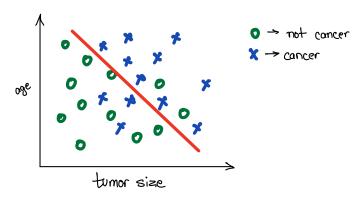


<u>Regression</u>: A supervised learning problem is a regression problem if the value Y to be predicted is continuous.



f(x) = Y

Classification: A supervised learning problem is a classification problem if the value Y to be predicted has discrete values



Unsupervised Learning: The goal of Unsupervised Learning is to find hidden patterns in unlabeled data

