Improved Student Notes on Machine Learning  
  
Machine learning is a branch of artificial intelligence (AI) focused on building systems that can learn from data. It involves algorithms that improve automatically through experience.  
  
Supervised Learning  
Supervised learning uses labeled data to train models. Examples: Linear Regression, Logistic Regression, and Support Vector Machines (SVM).  
  
Unsupervised Learning  
Unsupervised learning works with unlabeled data. Examples include K-means Clustering and Principal Component Analysis (PCA).