## 12 popular ML algorithms

Thursday, August 3, 2023 12:15 PM

- 1. Linear Regression  $\square$ : A foundational algorithm for predicting continuous values based on linear relationships in the data.
- 2. Logistic Regression [1]: Ideal for binary classification tasks, estimating the probability of an event occurrence.
- 3. Decision Tree ②: A versatile algorithm for both regression and classification tasks, creating tree-like models for decision-making.
- 5. Naive Bayes 晉: A probabilistic classifier based on Bayes' theorem, well-suited for text classification and spam filtering.
- 6. Gradient Boosted Trees 🕃: Boosting technique that builds multiple weak learners to create a strong predictive model.
- 7. Neural Networks ②: Deep Learning marvel mimicking the human brain's architecture, enabling complex pattern recognition.
- 8. PCA (Principal Component Analysis) : A dimensionality reduction technique to transform high-dimensional data into a lower-dimensional space.
- 9. Support Vector Machine **@**: Effective for classification tasks, defining decision boundaries by maximizing the margin between data points.
- 10. K-Nearest Neighbor : Instance-based learning where new data points are classified based on their proximity to known data.
- 11. K-Means **②**: A popular clustering algorithm that groups similar data points into clusters based on distance.
- 12. Markov Chain Model 🚱: A probabilistic model used for sequential data analysis, with applications in natural language processing and finance.

