Stock Prediction using Support Vector Regression

1. **Problem** — Predicting Stock price

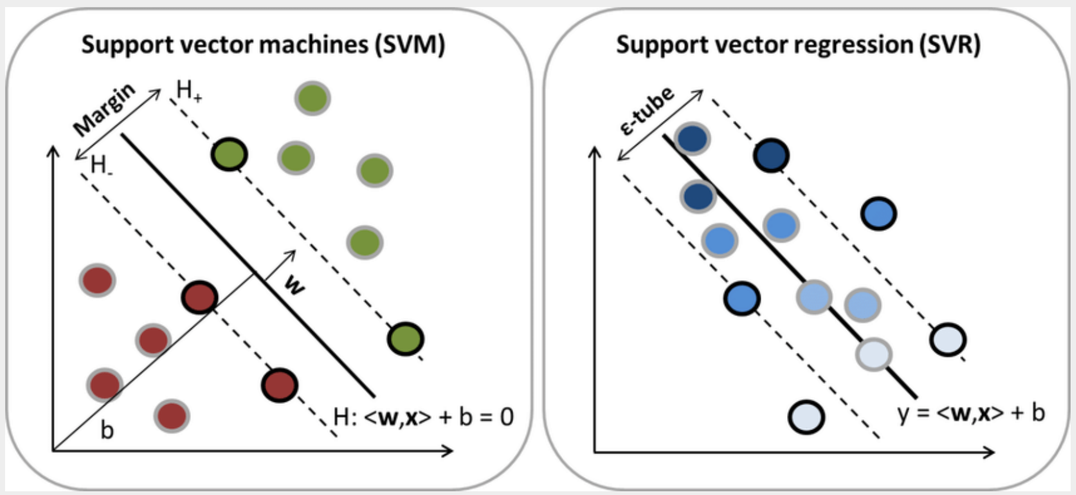
2. **Dataset**
   - X-parameter | Y-price: Stock value based on another parameter

3. **Summarize Dataset**
   - (10, 2): dataset.shape
   - dataset.head(5)

4. **Segregate Dataset into X & Y**
   - Input: X = dataset.iloc[:, :-1].values
   - Output: Y = dataset.iloc[:, -1].values

5. **Splitting dataset to train & test for Validation** — train_test_split

6. **Algorithm** — **Support vector regression**



SVM - The goal is to find the hyperplane that maximizes this margin, ensuring the best separation between the two classes.

SVR - Most of the data points should fall within the margin . This means the model's predictions are close to the actual values.

7. **Train using SVR** — Observe how the line fits for our data points

8. **Prediction & Validation**
   - r2_score
   - mean_squared_error

Presented with xmind