**Characteristics of Machine Learning Model**

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| **Algorithms** | | **Characteristics** |
| **Category** | **Name** |
| Regression | Linear Regression | Linear, Continuous |
| Multiple Linear Regression | Linear, Continuous |
| Polynomial Regression | Non-Linear, Continuous |
| Support Vector Regression (SVR) | Non-Linear, Continuous |
| Decision Tree Regression | Non-Linear, Discrete, may Over-Fit |
| Random Forest Regression | Non-Linear, Discrete, Ensemble, may Over-Fit |
| Classifier | Logistic Regression | Linear, Continuous |
| K-Nearest Neighbors (K-NN) | Non-Linear, may Over-fit |
| Support Vector Machine (SVM) | Depend on Kernel.  Popular are Gaussian rbf, Polynomial, Sigmoid |
| Kernel SVM |
| Naive Bayes | Non-Linear, Smooth by using Probability Prediction |
| Decision Tree Classification | Non-Linear, Discrete, may Over-Fit |
| Random Forest Classification | Non-Linear, Discrete, Ensemble, may Over-Fit |
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