**《机器学习基石》**

**When Can Machine Learn?**

* [The Learning Problem](https://redstonewill.com/65/)
* [Learning to Answer Yes/No](https://redstonewill.com/70/)
* [Types of Learning](https://redstonewill.com/73/)
* [Feasibility of Learning](https://redstonewill.com/77/)

**Why Can Machine Learn?**

* [Training versus Testing](https://redstonewill.com/80/)
* [Theory of Generalization](https://redstonewill.com/217/)
* [The VC Dimension](https://redstonewill.com/222/)
* [Noise and Error](https://redstonewill.com/227/)

**How Can Machine Learn?**

* [Linear Regression](https://redstonewill.com/232/)
* [Logistic Regression](https://redstonewill.com/236/)
* [Linear Models for Classification](https://redstonewill.com/243/)
* [Nonlinear Transformation](https://redstonewill.com/246/)

**How Can Machine Learn Better?**

* [Hazard of Overfitting](https://redstonewill.com/249/)
* [Regularization](https://redstonewill.com/252/)
* [Validation](https://redstonewill.com/255/)
* [Three Learning Principles](https://redstonewill.com/311/)

**《机器学习技法》**

**Embedding Numerous Features: Kernel Models**

* [Linear Support Vector Machine](https://redstonewill.com/345/)
* [Dual Support Vector Machine](https://redstonewill.com/369/)
* [Kernel Support Vector Machine](https://redstonewill.com/393/)
* [Soft-Margin Support Vector Machine](https://redstonewill.com/417/)
* [Kernel Logistic Regression](https://redstonewill.com/456/)
* [Support Vector Regression](https://redstonewill.com/477/)

**Combining Predictive Features: Aggregation Models**

* [Blending and Bagging](https://redstonewill.com/509/)
* [Adaptive Boosting](https://redstonewill.com/535/)
* [Decision Tree](https://redstonewill.com/569/)
* [Random Forest](https://redstonewill.com/601/)
* [Gradient Boosted Decision Tree](https://redstonewill.com/644/)

**Distilling Implicit Features: Extraction Models**

* [Neural Network](https://redstonewill.com/682/)
* [Deep Learning](https://redstonewill.com/710/)
* [Radial Basis Function Network](https://redstonewill.com/739/)
* [Matrix Factorization](https://redstonewill.com/783/)
* [Finale](https://redstonewill.com/810/)