

Machine Learning Brunch & Learn

Multiple Linear Regression

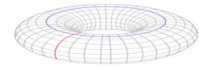


MATHEMATICS

M

Contains brief segments of multivariable calculus, linear algebra and numerical approximations

Over 15 requires accompanying sense of child-like wonder



Glossary, because everyone loves vague jargon!

Feature: a number that captures some characteristic
(can be *categorical* or *continuous*)

Example: a list of features for a single entity

Data: a collection of examples

Independent variable: input for a model

Dependent variable: output from a model





Multiple Linear Regression: try to build a linear* model (relationship) between the independent variables and the dependent variable.

* and sometimes some cleverly non-linearish models too

Linear Relationship for 1 independent variable

Loss/Cost for a guess

Gradient descent, where the machine learns, kind of

Linear Relationship with oodles of independent variables

Loss/Cost for a guess

Gradient descent, where the machine learns, kind of