**Mathematics for Machine Learning**

Data

* Individual pieces of factual information collected from various sources which is stored, processed for data analysis.
* **Types of Data**
  + Nominal Data- label variables without any measurable values. Eg: country, gender, race etc.
  + Ordinal Data - categorical data with a set order or scale to it. Eg: movie ratings, salary range etc.
  + Discrete - data with finite set of values which can be categorized. Eg:class strength, questions answered correctly etc
  + Continuous - data can take numerical values within a range. Eg: Water pressure, weight of a person.

A diagram of a data flow

Description automatically generated

**LINEAR ALGEBRA**

A domain of mathematics concerning linear equations and their representations in vector spaces and through matrices.

A diagram of a triangle

Description automatically generated

Linear equation is an equation having a maximum order of one.A screenshot of a math problem

Description automatically generated