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Random Variables; Types of Random Variables



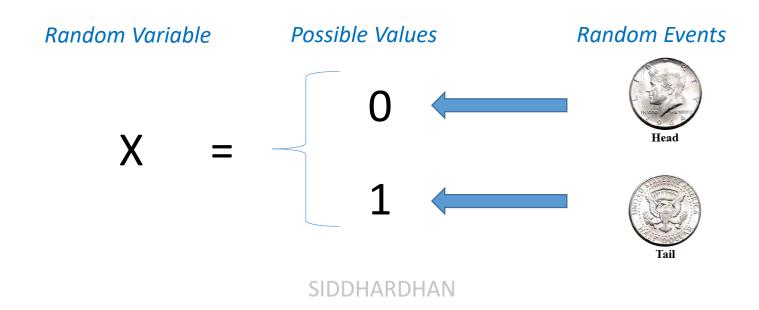
Math for Machine Learning

Random Variables

A Random Variable is a numerical description of the outcomes of Random events.

In other words, a random variable maps the outcomes of random events to numerical values.

Consider Tossing a Coin



Random Variables

Few Examples of Random Variables:

P (Weight of a random person in a class is less than 60 kg)
P (Y < 60)

Applications:

- > Turnover of a company in a given time period.
- > Price change of an asset over a given time period

Types of Data



A discrete random variable takes only discrete or distinct values.

Examples: Coin toss, Colour of the ball.

A continuous random variable can take any value in a given range.

Examples: weight of a random person in a class.