https://www.simplilearn.com/tutorials/statistics-tutorial/difference-between-probability-and-likelihood

The term "probability" refers to the possibility of something happening.

The term Likelihood refers to the process of determining the best data distribution given a specific situation in the data.

When calculating the probability of coin getting heads, you assume that P(head) = 0.5

However, when calculating the likelihood, you are trying to find if the model parameter (p = 0.5) is correctly specified or not.

https://medium.com/swlh/probability-vs-likelihood-cdac534bf523

Probability corresponds to finding the chance of something given a sample distribution of the data, while on the other hand, Likelihood refers to finding the best distribution of the data given a particular value of some feature or some situation in the data.

The likelihood in very simple terms means to increase the chances of a particular situation to happen/occur by varying the characteristics of the dataset distribution.

P(x/y)
L(y/x)

Probability: her şey sabit

$$P(height > 170cm | \mu = 170, \sigma = 3.5)$$

Calculating Probability [Image by Author!]

Likelihood: soldaki değer sürekli değişip sağ hangisine en çok uyuyor hesabı

$$Likelihood(\mu = 170, \sigma = 3.5 | height > 170cm)$$

Likelihood calculation [Image by Author!]