

Science of Knowledge

9.1 Techniques of Knowledge Acquisition

The need for a basic philosophical tool set to distinguish science from non-science emerged because _____.

Using the theory of relativity as an example, philosophers of the Wiener Kreis would argue that _____.

If you want to verify the claim that all white storks migrate to Africa in the winter using induction, you have to _____.

The problem with induction is that _____.

Deductive reasoning produces a priori knowledge because _____.

9.2 Probability

An event with the probability of 1 is _____, while an even with the probability of 0 is _____.

The issue with frequentism is that even if a theory is supported, _____.

Conditional probability is the probability that _____.

In Bayesian probability, the difference between prior probability and posterior probability is _____.

9.3 Machine Learning

Statistical learning is both inductive and deductive because _____.

The problem with using training data to make predictions is that _____
_____.

Height and weight of different dogs are independent data because _____
_____.

If a large generalization error occurs despite the data being independent and identically distributed, it means that _____.