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coursera



Metrics to assess model performance - I

- Video: Welcome to Course 2!
 44 sec
- Reading: What can you expect from this course/specialization?

 10 min
- Video: Introduction
 1 min
- Video: Underfitting and Overfitting 2 min
- Video: Explained Variance 2 min
- Video: Cross Validation
 1 min
- Video: Information Criteria
 1 min
- Video: Log-likelihood and Deviance
 3 min
- Video: Posterior Predictive
 Distribution
 1 min
- Reading: Likelihood and its use in Parameter Estimation and Model Comparison

 1h

Metrics to assess model performance - II

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Environment Setup for Run

There are various ways to setup and run the Python notebo instructions on how to setup your environment.

https://sjster.github.io/introduction to computational statis

The What, Why and Whom.

The purpose of this series of courses is to teach the basics of performing inference. This is **not** intended to be a compreh statistics and probability nor does it cover Frequentist statis Hypothesis Significance Testing (NHST). What it does cover i

- The basics of Bayesian probability
- Understanding Bayesian inference and how it works
- The bare-minimum set of tools and a body of knowled inference in Python, i.e. the PyData stack of NumPy, Pa and <u>Plot.ly</u>
- A scalable Python-based framework for performing Ba

With this goal in mind, the content is divided into the followi

- Introduction to Bayesian Statistics
- Introduction to Monte Carlo Methods
- PyMC3 for Bayesian Modeling and Inference

Why Inference?

The purpose of the set of courses is to focus on **Inferential Statistics**.

All the samples in the group that we are interested in learning Populations can be described by **parameters** such as the most the data. Often, we do not have access to all the data in of the population. The metrics of mean and variance computed parameters but **statistics** of the data.