Sep 08, 2022. Forecasting. Principles and practice

- 1.1 how well we understand the factors that contribute to it
- a. Data available
- 3. How much the future is smilen to the past
- 4. Wether the forecast can affect the thing we trying to predict.
- Understand its limits
- Loucasts rarely assumes that the environment is unchanging Lo The way it changes now will change in the future.
 - Naive or judmental method for for casting.

1.2 Forecasting Goals and Planing. Locasting: Predicte the future the accurate as possible.
Goals: What you would like to happen. Not often occur. flomning: Appropriate actions. 1.3 Determining what to forecast -> The dataset structure Product on group of products or monthly/omnaly? - p By region? 1.4 Soucasting data and mithods - No data: qualitative forecasting
Lo Chap. 06 - Duantatin boucarting

data · heaven to bolieve the patterns.

Time Series Forecasting
· Monthly Rainfall
Everything that is observed sequentially overtime is a time series. Ask
Explanatory x Mixed models
at has hun wild to forwark.
1.5 Some carls of situdis.

1.6 The basic steps in forecasting task
1. Problem definition

2 Gathering information

2 Preliminary (Inplocatory) analysis to Graph the data

4 Choosing and filling models

5. Wring and Evaluating a forecasting model.

1.7 The statistical forecasting perspective
The forecasted variable is a random variable.
Variation shrink as the went approach.
The forecast is the middle value. The forecast is the middle value. The forecast is the middle value.
Comes with the predicition interval
Fore cast Distribution Average of possible future values. (Bint Forecast).
(gt II) - process to distribution
Jtt-1 Information given.

Exercices

1. Case 3 Brand of the car Services made on the courts ~ Interest Rate SD amages - Overall condition of the coar SInflation Time Series Km driven Case 4 13 Australian Calendar ts Ticket pricing Purpose of the trip F Length of the trip Time of departure 13 Size of the plane Ts Benefits from each class

d. 1. Problem Définition Predicting resale car values to mass mize profits 2. Gathering information Previous data collected before on their buy and vessale values, Brand of the car, Interest Rate Damages - Overall condition of the car Inflation Km driven 3 Preliminary (exploratory) analysis to Grap h the data -Histogram - Boxplots (Brandx Price of ressale) - Summarise the data 4 Choosing and filling models Timeseries Model

5. Wring and Evaluating a forecasting Accuracy technique. made.

La Confusion Matrix
The forecast distribution and its
range. (Prediction interval).