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# PRACTICAL TIME SERIES FORECASTING

A HANDS-ON GUIDE

**Galit Shmueli**

Author of *Data Mining for Business Analytics*

# Practical Time Series Forecasting A Hands On Guide 3rd Edition Practical Analytics

**Galit Shmueli, Peter C. Bruce, Kuber R.  
Deokar, Nitin R. Patel**



## **Practical Time Series Forecasting A Hands On Guide 3rd Edition Practical Analytics:**

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Machine Learning for Business Analytics Galit Shmueli, Peter C. Bruce, Kuber R. Deokar, Nitin R. Patel, 2023-04-19

MACHINE LEARNING FOR BUSINESS ANALYTICS Machine learning also known as data mining or predictive analytics is a fundamental part of data science It is used by organizations in a wide variety of arenas to turn raw data into actionable information Machine Learning for Business Analytics Concepts Techniques and Applications with Analytic Solver Data Mining provides a comprehensive introduction and an overview of this methodology The fourth edition of this best selling textbook covers both statistical and machine learning algorithms for prediction classification visualization dimension reduction rule mining recommendations clustering text mining experimentation time series forecasting and network analytics Along with hands on exercises and real life case studies it also discusses managerial and ethical issues for responsible use of machine learning techniques This fourth edition of Machine Learning for Business Analytics also includes An expanded chapter on deep learning A new chapter on experimental feedback techniques including A B testing uplift modeling and reinforcement learning A new chapter on responsible data science Updates and new material based on feedback from instructors teaching MBA Masters in Business Analytics and related programs undergraduate diploma and executive courses and from their students A full chapter devoted to relevant case studies with more than a dozen cases demonstrating applications for the machine learning techniques End of chapter exercises that help readers gauge and expand their comprehension and competency of the material presented A companion website with more than two dozen data sets and instructor materials including exercise solutions slides and case solutions This textbook is an ideal resource for upper level undergraduate and graduate level courses in data science predictive analytics and business analytics It is also an excellent reference for analysts researchers and data science practitioners working with quantitative data in management finance marketing operations management information systems computer science and information technology *Decision*

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**In Detail Time Series Analysis** allows us to analyze data which is generated over a period of time and has sequential interdependencies between the observations This book describes special mathematical tricks and techniques which are geared towards exploring the internal structures of time series data and generating powerful descriptive and predictive insights Also the book is full of real life examples of time series and their analyses using cutting edge solutions developed in Python The book starts with descriptive analysis to create insightful visualizations of internal structures such as trend seasonality and autocorrelation Next the statistical methods of dealing with autocorrelation and non stationary time series are described This is followed by exponential smoothing to produce meaningful insights from noisy time series data At this point we shift focus towards predictive analysis and introduce autoregressive models such as ARMA and ARIMA for time series forecasting Later powerful deep learning methods are presented to develop accurate forecasting models for complex time series and under the availability of little domain knowledge All the topics are illustrated with real life problem scenarios and their solutions by best practice implementations in Python The book concludes with the Appendix with a brief discussion of programming and solving data science problems using Python Style and approach This book takes the readers from the basic to advance level of Time series analysis in a very practical and real world use cases

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