



Assessing and Improving Prediction and Classification

Theory and Algorithms in C++

—
Timothy Masters

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Assessing And Improving Prediction And Classification

Timothy Masters



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Assessing and Improving Prediction and Classification Timothy Masters, 2013-04-21 This book begins by presenting methods for performing practical real life assessment of the performance of prediction and classification models It then goes on to discuss techniques for improving the performance of such models by intelligent resampling of training testing data combining multiple models into sophisticated committees and making use of exogenous information to dynamically choose modeling methodologies Rigorous statistical techniques for computing confidence in predictions and decisions receive extensive treatment Finally a hundred pages are devoted to the use of information theory in evaluating and selecting useful predictors Special attention is paid to Schreiber s Information Transfer a recent generalization of Grainger Causality Well commented C code is given for every algorithm and technique The ultimate purpose of this text is three fold The first goal is to open the eyes of serious developers to some of the hidden pitfalls that lurk in the model development process The second is to provide broad exposure for some of the most powerful model enhancement algorithms that have emerged from

academia in the last two decades while not bogging down readers in cryptic mathematical theory Finally this text should provide the reader with a toolbox of ready to use C code that can be easily incorporated into his or her existing programs

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Modern Data Mining Algorithms in C++ and CUDA C Timothy Masters, 2020-06-05 Discover a variety of data mining algorithms that are useful for selecting small sets of important features from among unwieldy masses of candidates or extracting useful features from measured

variables As a serious data miner you will often be faced with thousands of candidate features for your prediction or classification application with most of the features being of little or no value You ll know that many of these features may be useful only in combination with certain other features while being practically worthless alone or in combination with most others Some features may have enormous predictive power but only within a small specialized area of the feature space The problems that plague modern data miners are endless This book helps you solve this problem by presenting modern feature selection techniques and the code to implement them Some of these techniques are Forward selection component analysis Local feature selection Linking features and a target with a hidden Markov model Improvements on traditional stepwise selection Nominal to ordinal conversion All algorithms are intuitively justified and supported by the relevant equations and explanatory material The author also presents and explains complete highly commented source code The example code is in C and CUDA C but Python or other code can be substituted the algorithm is important not the code that s used to write it

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Deep Belief Nets in C++ and CUDA C: Volume 1 Timothy Masters,2018-04-23 Discover the essential building blocks of the most common forms of deep belief networks At each step this book provides intuitive motivation a summary of the most important equations relevant to the topic and concludes with highly commented code for threaded computation on modern CPUs as well as massive parallel processing on computers with CUDA capable video display cards The first of three in a series on C and CUDA C deep learning and belief nets Deep Belief Nets in C and CUDA C Volume 1 shows you how the structure of these elegant models is much closer to that of human brains than traditional neural networks they have a thought process that is capable of learning abstract concepts built from simpler primitives As such you ll see that a typical deep belief net can learn to recognize complex patterns by optimizing millions of parameters yet this model can still be resistant to overfitting All the routines and algorithms presented in the book are available in the code download which also contains some libraries of related routines What You Will Learn Employ deep learning using C and CUDA C Work with

supervised feedforward networks Implement restricted Boltzmann machines Use generative samplings Discover why these are important Who This Book Is For Those who have at least a basic knowledge of neural networks and some prior programming experience although some C and CUDA C is recommended *Proceedings of the 15th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2023)* Anu Bajaj,Ajith Abraham,Oscar Castillo,2025-04-24 This book presents 57 selected papers focused on Smart Health Care from the 14th International Conference on Soft Computing and Pattern Recognition SoCPaR 2023 and 14th World Congress on Nature and Biologically Inspired Computing NaBIC 2023 which was held in 5 different cities namely Olten Switzerland Porto Portugal Kaunas Lithuania Greater Noida India Kochi India and in online mode SoCPaR NaBIC 2023 had contributions by authors from 39 countries This Volume offers a valuable reference guide for all medical doctors scientists academicians researchers students and practitioners in the field of artificial intelligence and smart health care

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