



Assessing and Improving Prediction and Classification

Theory and Algorithms in C++

—
Timothy Masters

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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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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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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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