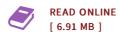# Probability and Statistics for Computer Science

By David Forsyth

Springer-Verlag Gmbh Feb 2018, 2018. Buch. Condition: Neu. Neuware - This textbook is aimed at computer science undergraduates late in sophomore or early in junior year, supplying a comprehensive background in qualitative and quantitative data analysis, probability, random variables, and statistical methods, including machine learning. With careful treatment of topics that fill the curricular needs for the course, Probability and Statistics for Computer Science features: - A treatment of random variables and expectations dealing primarily with the discrete case. - A practical treatment of simulation, showing how many interesting probabilities and expectations can be extracted, with particular emphasis on Markov chains. - A clear but crisp account of simple point inference strategies (maximum likelihood; Bayesian inference) in simple contexts. This is extended to cover some confidence intervals, samples and populations for random sampling with replacement, and the simplest hypothesis testing. - A chapter dealing with classification, explaining why it's useful; how to train SVM classifiers with stochastic gradient descent; and how to use implementations of more advanced methods such as random forests and nearest neighbors. - A chapter dealing with regression, explaining how to set up, use and understand linear regression and nearest neighbors regression in practical problems. - A...

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