

A Solution Manual and Notes for:
The Elements of Statistical Learning
by Jerome Friedman, Trevor Hastie,
and Robert Tibshirani

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David Epstein†

16 October 2021

Introduction

The Elements of Statistical Learning is an influential and widely studied book in the fields of machine learning, statistical inference, and pattern recognition. It is a standard recommended text in many graduate courses on these topics. It is also very challenging, particularly if one faces it without the support of teachers who are expert in the subject matter. For various reasons, both authors of these notes felt the need to understand the book well, and therefore to produce notes on the text when we found the text difficult at first reading, and answers to the exercises. Gaining understanding is time-consuming and intellectually demanding, so it seemed sensible to record our efforts in LaTeX, and make it available on the web to other readers. A valuable by-product of writing up mathematical material, is that often one finds gaps and errors in what one has written.

Now it is well-known in all branches of learning, but in particular in *mathematical* learning, that the way to learn is to *do*, rather than to *read*. It is all too common to read through some material, convince oneself that one understands it well, but then find oneself at sea when trying to apply it in even a slightly different situation. Moreover, material understood only at a shallow level is easily forgotten.

It is therefore our *strong* recommendation that readers of the book should not look at our responses to any of the exercises before making a substantial effort to understand it without this aid. Any time spent in this way, even if it ends without success, will make our solutions

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web verarbeitung von kunststoffen das wichtigste kunststoffe bestehen aus polymeren und können in linearer verzweigter und vernetzter form vorkommen es gibt drei arten von kunststoffen duroplaste elastomere und thermoplaste das erste verarbeiten von kunststoff in form von granulat oder pulver heißt urformen