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Linear regression models

¶ A linear regression model says that the function f is a sum (linear combination) of functions of Mother.

Simple linear regression model: $f(\text{Mother}) = \theta_0 + \theta_1 \text{Mother}$ for some unknown parameter vector (θ_0, θ_1) .

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Simple_linear_regression
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The course is intended to be a (non-exhaustive) survey of regression techniques from both a theoretical and applied perspective. Time permitting, the types of models we will study include: Simple Linear Regression Multiple Linear Regression

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Polynomial Regression
Model Selection for
Multiple Linear Models

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STATS 203 Introduction
to Regression ... -

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As a refresher, we will
start by learning how to
implement linear
regression. The main idea
is to get familiar with
objective functions,
computing their

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gradients and optimizing the objectives over a set of parameters. These basic tools will form the basis for more sophisticated algorithms later.

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linear model that predicts
demand: predicted peak

demand = 1 (high
temperature) + 2 60 65

70 75 80 85 90 95 1.5 2

2.5 3 High Temperature

(F) Peak Hourly

Demand (GW)

Observed data Linear

regression prediction

Parameters of model: 1; 2

2R (1 = 0:046, 2 = 1:46)

Stefano Ermon Machine

Learning 1:

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Contents: Linear
Regression with One
Variable, Model
Representation, Cost
Function, Cost Function
Intuition Part 1, Cost
Function Intuition Part 2,
Gradient Descent,
Gradient Descent
Intuition ...

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Linear Regression with
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with One Variable Quiz

Questions Question 1

Consider the problem of

predicting how well a

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Machine Learning Week
1 Quiz 2 (Linear
Regression with One
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Machine Learning
(Coursera) Question 1.
Consider the problem of
predicting how well a

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student does in her second year of college/university, given how well she did in her first year.

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relationship between an
input and its output.
Given a set of known
input/output values,
linear regression will find
the linear function that

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best fits these values and that can predict the outcome output for any new input value.

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Stat 305A: Linear Models
(and more) - Stanford
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1. Implement gradient
descent using a learning

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rate of . Since
Matlab/Octave and
Octave index vectors
starting from 1 rather
than 0, you'll probably
use $\theta(1)$ and $\theta(2)$
in Matlab/Octave to
represent and . Initialize
the parameters to (i.e.,),
and run one iteration of
gradient descent from
this initial starting
point. Record the value of
of and that you get after

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this first iteration.

Machine Learning -
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and Department of
Statistics Stanford
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Linear logistic regression
models the expectation
of a dichotomous re-
sponse variable with the
model $\ln(p(x)/(1 - p(x)))$
 $= x' \beta$. Often the assump-
tion of linearity is

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violated, and alternative forms are sought.

NON-PARAMETRIC LOGISTIC

REGRESSION ‘ Ilavor
J. Hastie and ...

Implementation required method comparison studies, and linear regression was commonly used for data analysis. If a linear relationship between the

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test and the reference method could be defined, then the slope and the intercept of this line provided estimates of the proportional and constant error between the 2 methods.

During the past decade there has been an explosion in

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computation and
information technology.

With it have come vast
amounts of data in a
variety of fields such as
medicine, biology,
finance, and marketing.

The challenge of
understanding these data
has led to the
development of new
tools in the field of
statistics, and spawned
new areas such as data

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mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book describes the important ideas in these areas in a common conceptual framework. While the approach is statistical, the emphasis is on concepts rather than

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Regression. Many examples are given, with a liberal use of color graphics. It should be a valuable resource for statisticians and anyone interested in data mining in science or industry. The book 's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks, support

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vector machines,
classification trees and
boosting---the first
comprehensive treatment
of this topic in any book.
This major new edition
features many topics not
covered in the original,
including graphical
models, random forests,
ensemble methods, least
angle regression & path
algorithms for the lasso,
non-negative matrix

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factorization, and spectral clustering. There is also a chapter on methods for “wide” data (p bigger than n), including multiple testing and false discovery rates. Trevor Hastie, Robert Tibshirani, and Jerome Friedman are professors of statistics at Stanford University. They are prominent researchers in this area: Hastie and

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Tibshirani developed generalized additive models and wrote a popular book of that title.

Hastie co-developed much of the statistical modeling software and environment in R/S-PLUS and invented principal curves and surfaces. Tibshirani proposed the lasso and is co-author of the very successful An

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Introduction to the Bootstrap. Friedman is the co-inventor of many data-mining tools including CART, MARS, projection pursuit and gradient boosting.

An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for

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making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification,

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resampling methods,
shrinkage approaches,
tree-based methods,
support vector machines,
clustering, and more.

Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science,

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industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote *The Elements of Statistical Learning* (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book

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for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text

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assumes only a previous course in linear regression and no knowledge of matrix algebra.

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techniques in various
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including typical
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outlined such as basic inference procedures, introductory aspects of model adequacy checking, and polynomial regression models and their variations. The book then discusses how transformations and weighted least squares can be used to resolve problems of model inadequacy and also how

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Regression models with random effects in addition to a discussion on subsampling and the importance of the mixed model Tests on individual regression coefficients and subsets of coefficients Examples of current uses of simple linear regression models and the use of multiple regression models for understanding patient

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satisfaction data. In addition to Minitab, SAS, and S-PLUS, the authors have incorporated JMP and the freely available R software to illustrate the discussed techniques and procedures in this new edition. Numerous exercises have been added throughout, allowing readers to test their understanding of the material.

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Introduction to Linear Regression Analysis, Fifth Edition is an excellent book for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. The book also serves as a valuable, robust resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.

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Discover New Methods
for Dealing with High-
Dimensional Data A

sparse statistical model
has only a small number
of nonzero parameters or
weights; therefore, it is
much easier to estimate
and interpret than a
dense model. Statistical
Learning with Sparsity:
The Lasso and
Generalizations presents

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methods that exploit sparsity to help recover the underlying signal in a set of data. Top experts in this rapidly evolving field, the authors describe the lasso for linear regression and a simple coordinate descent algorithm for its computation. They discuss the application of l_1 penalties to generalized linear models and

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support vector machines, cover generalized penalties such as the elastic net and group lasso, and review numerical methods for optimization. They also present statistical inference methods for fitted (lasso) models, including the bootstrap, Bayesian methods, and recently developed approaches. In addition,

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the book examines matrix decomposition, sparse multivariate analysis, graphical models, and compressed sensing. It concludes with a survey of theoretical results for the lasso. In this age of big data, the number of features measured on a person or object can be large and might be larger than the number of observations.

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This book shows how the sparsity assumption allows us to tackle these problems and extract useful and reproducible patterns from big datasets. Data analysts, computer scientists, and theorists will appreciate this thorough and up-to-date treatment of sparse statistical modeling.

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