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*The design patterns in this book
capture best practices and
solutions to recurring problems in*

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*machine learning. The authors,
three Google engineers, catalog
proven methods to help data
scientists tackle common
problems throughout the ML
process. These design patterns
codify the experience of*

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*hundreds of experts into
straightforward, approachable*

advice. In this book, you will find

detailed explanations of 30

patterns for data and problem

representation,

operationalization, repeatability,

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*reproducibility, flexibility,
explainability, and fairness. Each
pattern includes a description of
the problem, a variety of potential
solutions, and recommendations
for choosing the best technique
for your situation. You'll learn how*

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*to: Identify and mitigate common
challenges when training,
evaluating, and deploying ML
models Represent data for
different ML model types,
including embeddings, feature
crosses, and more Choose the*

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*right model type for specific
problems Build a robust training
loop that uses checkpoints,
distribution strategy, and
hyperparameter tuning Deploy
scalable ML systems that you
can retrain and update to reflect*

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new data Interpret model

predictions for stakeholders and

ensure models are treating users

fairly

Data visualization is an efficient

and effective medium for

communicating large amounts of

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*information, but the design
process can often seem like an
unexplainable creative endeavor.
This concise book aims to
demystify the design process by
showing you how to use a linear
decision-making process to*

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*encode your information visually.
Delve into different kinds of
visualization, including
infographics and visual art, and
explore the influences at work in
each one. Then learn how to
apply these concepts to your*

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*design process. Learn data
visualization classifications,
including explanatory,
exploratory, and hybrid Discover
how three fundamental
influences—the designer, the
reader, and the data—shape*

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*what you create Learn how to
describe the specific goal of your
visualization and identify the
supporting data Decide the
spatial position of your visual
entities with axes Encode the
various dimensions of your data*

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*with appropriate visual
properties, such as shape and
color See visualization best
practices and suggestions for
encoding various specific data
types*

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*print title, Framework Design
Guidelines, Second Edition .
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pages of your eBook. Framework
Design Guidelines, Second
Edition, teaches developers the
best practices for designing*

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*reusable libraries for the
Microsoft .NET Framework.
Expanded and updated for .NET
3.5, this new edition focuses on
the design issues that directly
affect the programmability of a
class library, specifically its*

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*publicly accessible APIs. This
book can improve the work of
any .NET developer producing
code that other developers will
use. It includes copious
annotations to the guidelines by
thirty-five prominent architects*

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*and practitioners of the .NET
Framework, providing a lively
discussion of the reasons for the
guidelines as well as examples of
when to break those guidelines.
Microsoft architects Krzysztof
Cwalina and Brad Abrams teach*

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*framework design from the top
down. From their significant
combined experience and deep
insight, you will learn The general
philosophy and fundamental
principles of framework design
Naming guidelines for the various*

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*parts of a framework Guidelines
for the design and extending of
types and members of types
Issues affecting—and guidelines
for ensuring—extensibility How
(and how not) to design
exceptions Guidelines for—and*

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examples of—common framework design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those

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*that should generally be used,
those that should rarely be used,
and those that should never be
used. Every guideline includes a
discussion of its applicability, and
most include a code example to
help illuminate the dialogue.*

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*Framework Design Guidelines,
Second Edition, is the only
definitive source of best practices
for managed code API
development, direct from the
architects themselves. A
companion DVD includes the*

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Designing .NET Class Libraries
video series, instructional
presentations by the authors on
design guidelines for developing
classes and components that
extend the .NET Framework. A
sample API specification and

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*other useful resources and tools
are also included.*

*Enterprise Integration Patterns
provides an invaluable catalog of
sixty-five patterns, with real-world
solutions that demonstrate the
formidable of messaging and*

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*help you to design effective
messaging solutions for your
enterprise. The authors also
include examples covering a
variety of different integration
technologies, such as JMS,
MSMQ, TIBCO ActiveEnterprise,*

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Microsoft BizTalk, SOAP, and
XSL. A case study describing a

bond trading system illustrates

the patterns in practice, and the

book offers a look at emerging

standards, as well as insights into

what the future of enterprise

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*integration might hold. This book
provides a consistent vocabulary
and visual notation framework to
describe large-scale integration
solutions across many
technologies. It also explores in
detail the advantages and*

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*limitations of asynchronous
messaging architectures. The
authors present practical advice
on designing code that connects
an application to a messaging
system, and provide extensive
information to help you determine*

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when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this

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book.

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Semantic Modeling for Data

The Complete Guide to

Dimensional Modeling

Enterprise Integration Patterns

Agile Model-Driven Development

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with UML 2.0

Designing Data Visualizations

Describes ways to incorporate domain modeling into software development.

In recent years, companies and government agencies have come to realize that the data they use represent a significant corporate

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resource, whose cost calls for management every bit as rigorous as the management of human resources, money, and capital equipment. With this realization has come recognition of the importance to integrate the data that has traditionally only been available from disparate sources. An important component of this integration is

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the management of the “ metadata ” that describe, catalogue, and provide access to the various forms of underlying business data. The “ metadata repository ” is essential keeping track both of the various physical components of these systems, but also their semantics. What do we mean by “ customer? ” Where can we find

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information about our customers? After years of building enterprise models for the oil, pharmaceutical, banking, and other industries, Dave Hay has here not only developed a conceptual model of such a metadata repository, he has in fact created a true enterprise data model of the information technology industry itself. - The

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book is comprehensive, in that it is based on the Zachman Framework for information architecture--encompassing the Business Owner's, Architect's, and Designer's views, for all columns (data, activities, locations, people, timing, and motivation). - The book is comprehensible, in that it provides a step-by-step description of model and is

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organized so that different readers can benefit from different parts;. - The book takes advantage of the author's vast experience modeling various other industries; - The model provides a view of the world being addressed by all the techniques, methods and tools of the information processing industry (for

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example, object-oriented design, CASE, business process re-engineering, etc.). -
Indeed it presents many concepts that are not currently being addressed by such tools--and should be. David C. Hay is founder of Essential Strategies, Inc., a consulting firm dedicated to helping clients define corporate information architecture,

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identify requirements, and plan strategies for the implementation of new systems, including data warehouses. A pioneer in the use of standard data models for standard business situations, he is the author of the book *Data Model Patterns: Conventions of Thought*. Taking advantage of thirty years' experience helping companies identify

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systems requirements, he is also the author of Requirements Analysis: From Business Views to Architecture. He is a member of DAMA International and the Oracle Development Tools User Group, and has spoken frequently at events sponsored by these groups and others. - The book is comprehensive, in that it is based on the

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Zachman Framework for information architecture--encompassing the Business Owner's, Architect's, and Designer's views, for all columns (data, activities, locations, people, timing, and motivation). - The book is comprehensible, in that it provides a step-by-step description of model and is organized so that different readers can

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benefit from different parts;. - The book takes advantage of the author's vast experience modeling various other industries; - The model provides a view of the world being addressed by all the techniques, methods and tools of the information processing industry (for example, object-oriented design, CASE,

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How to Find it 4015
business process re-engineering, etc.). -
Indeed it presents many concepts that are
not currently being addressed by such
tools--and should be.

Whether you ' re building a social media
site or an internal-use enterprise application,
this hands-on guide shows you the
connection between MongoDB and the

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business problems it 's designed to solve. You 'll learn how to apply MongoDB design patterns to several challenging domains, such as ecommerce, content management, and online gaming. Using Python and JavaScript code examples, you 'll discover how MongoDB lets you scale your data model while simplifying the

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development process. Many businesses launch NoSQL databases without understanding the techniques for using their features most effectively. This book demonstrates the benefits of document embedding, polymorphic schemas, and other MongoDB patterns for tackling specific big data use cases, including:

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Operational intelligence: Perform real-time analytics of business data
Ecommerce: Use MongoDB as a product catalog master or inventory management system
Content management: Learn methods for storing content nodes, binary assets, and discussions
Online advertising networks: Apply techniques for frequency capping ad

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impressions, and keyword targeting and
bidding Social networking: Learn how to
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Google+ Online gaming: Provide
concurrent access to character and world
data for a multiplayer role-playing game
The Data Vault was invented by Dan
Linstedt at the U.S. Department of Defense,

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and the standard has been successfully applied to data warehousing projects at organizations of different sizes, from small to large-size corporations. Due to its simplified design, which is adapted from nature, the Data Vault 2.0 standard helps prevent typical data warehousing failures. "Building a Scalable Data Warehouse" covers everything

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How to Build a Scalable
Data Vault 2.0

one needs to know to create a scalable data warehouse end to end, including a presentation of the Data Vault modeling technique, which provides the foundations to create a technical data warehouse layer. The book discusses how to build the data warehouse incrementally using the agile Data Vault 2.0 methodology. In addition,

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readers will learn how to create the input layer (the stage layer) and the presentation layer (data mart) of the Data Vault 2.0 architecture including implementation best practices. Drawing upon years of practical experience and using numerous examples and an easy to understand framework, Dan Linstedt and Michael Olschimke discuss:

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How to load each layer using SQL Server
Integration Services (SSIS), including
automation of the Data Vault loading
processes. Important data warehouse
technologies and practices. Data Quality
Services (DQS) and Master Data Services
(MDS) in the context of the Data Vault
architecture. Provides a complete

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introduction to data warehousing,
applications, and the business context so
readers can get-up and running fast Explains
theoretical concepts and provides hands-on
instruction on how to build and implement
a data warehouse Demystifies data vault
modeling with beginning, intermediate, and
advanced techniques Discusses the

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advantages of the data vault approach over
other techniques, also including the latest
updates to Data Vault 2.0 and multiple
improvements to Data Vault 1.0

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Learning the basics of a
modeling technique is not the

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same as learning how to use and
apply it. To develop a data model
of an organization is to gain
insights into its nature that do not
come easily. Indeed, analysts
are often expected to understand
subtleties of an organization's

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structure that may have evaded
people who have worked there

for years. Here's help for those

analysts who have learned the

basics of data modeling (or

"entity/relationship modeling")

but who need to obtain the

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insights required to prepare a
good model of a real business.
Structures common to many
types of business are analyzed
in areas such as accounting,
material requirements planning,
process manufacturing,

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contracts, laboratories, and
documents. In each chapter,
high-level data models are drawn
from the following business
areas: The Enterprise and Its
World The Things of the
Enterprise Procedures and

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Activities Contracts Accounting
The Laboratory Material
Requirements Planning Process
Manufacturing Documents Lower-
Level Conventions
With Learning JavaScript Design
Patterns, you'll learn how to

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write beautiful, structured, and
maintainable JavaScript by
applying classical and modern
design patterns to the language.
If you want to keep your code
efficient, more manageable, and
up-to-date with the latest best

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practices, this book is for you.
Explore many popular design
patterns, including Modules,
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Mediators. Learn how modern
architectural patterns—such as
MVC, MVP, and MVVM—are

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useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and

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other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and

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modern design patterns in
JavaScript Use several options
for writing modular
code—including the Module
pattern, Asynchronous Module
Definition (AMD), and
CommonJS Discover design

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patterns implemented in the
jQuery library Learn popular
design patterns for writing
maintainable jQuery plug-ins
"This book should be in every
JavaScript developer's hands.
It's the go-to book on JavaScript

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patterns that will be read and
referenced many times in the
future."—Andrée Hansson, Lead
Front-End Developer, presis!
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Thought Addison-Wesley
This work has been revised and
updated to provide a
comprehensive treatment of
database design for commercial
database products and their

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applications. The book covers
the basic foundation of design as
well as more advanced
techniques, and also
incorporates coverage of data
warehousing and OLAP (On-Line
Analytical Processing), data

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mining, object-relational,
multimedia, and temporal/spatial
design.

Data Management at Scale

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Visualize, and Model Data
Recipes for Scaling Up with
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Helps you learn how to develop a
conceptual, business-oriented

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entity/relationship model, using a
variation on the UML Class Model
notation. This book is suitable for
data modellers who are convinced
that UML has nothing to do with
them, and UML experts who don't
realise that architectural data

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modelling really is different from
object modelling.

Essential Skills--Made Easy! Learn
how to create data models that
allow complex data to be analyzed,
manipulated, extracted, and
reported upon accurately. Data

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Modeling: A Beginner's Guide
teaches you techniques for
gathering business requirements
and using them to produce
conceptual, logical, and physical
database designs. You'll get details
on Unified Modeling Language

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(UML), normalization, incorporating business rules, handling temporal data, and analytical database design. The methods presented in this fast-paced tutorial are applicable to any database management system, regardless of

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Learning Key Skills &
Concepts--Chapter-opening lists of
specific skills covered in the
chapter Ask the expert--Q&A
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information and helpful tips Try

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This--Hands-on exercises that
show you how to apply your skills
Notes--Extra information related to
the topic being covered Self
Tests--Chapter-ending quizzes to
test your knowledge Andy Oppel
has taught database technology for

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the University of California
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Extension for more than 25 years.
He is the author of Databases
Demystified, SQL Demystified, and
Databases: A Beginner's Guide,
and the co-author of SQL: A
Beginner's Guide, Third Edition,

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and SQL: The Complete
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Used by sites as varied as Twitter,
GitHub, Disney, and Airbnb, Ruby

on Rails is one of the most popular

frameworks for developing web

applications, but it can be

challenging to learn and use.

Whether you 're new to web

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Ruby on Rails™ Tutorial, Fourth

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Edition, is the solution. Best-selling
author and leading Rails developer
Michael Hartl teaches Rails by
guiding you through the
development of three example

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applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails

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5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not

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only for Rails, but also for the
essential Ruby, HTML, CSS, and
SQL skills you need when
developing web applications. Hartl
explains how each new technique
solves a real-world problem, and
then he demonstrates it with bite-

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sized code that 's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you Install and set up your Rails development

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environment, including pre-installed
integrated development
environment (IDE) in the cloud Go
beyond generated code to truly
understand how to build Rails
applications from scratch Learn
testing and test-driven development

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(TDD) Effectively use the Model-
View-Controller (MVC) pattern
Structure applications using the
REST architecture Build static
pages and transform them into
dynamic ones Master the Ruby
programming skills all Rails

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developers need Create high-

quality site layouts and data models
Implement registration and
authentication systems, including
validation and secure passwords

Update, display, and delete users

Upload images in production using

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a cloud storage service Implement
account activation and password
reset, including sending email with

Rails Add social features and

microblogging, including an

introduction to Ajax Record version

changes with Git and create a

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common development problems.
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experience with the iOS design
patterns you need to know. Who
This Book Is For Whether you're a
beginner, intermediate or advanced
iOS developer, this book is for you.
You can either read this book from
cover to cover, or skip around to

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first learn about how design

patterns work and how they can

help you build better, cleaner apps.

Fundamental Patterns: You'll

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progress onto fundamental design patterns, such as MVC, Delegation, and Strategy, which you're likely to use on every iOS app. Intermediate Patterns: You'll then learn about intermediate design patterns, such as MVVM, Factory, and Adapter,

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which are less common than
fundamental patterns but still very
useful for most apps. You'll finish
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typically very dynamic with requirements that change as data understanding grows.

The data itself arrives piecemeal, is added to, replaced, contains undiscovered flaws and comes from a variety of sources.

Teams also have mixed skill sets and tooling is often limited. Despite these disruptions, a data science team must get

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underlies the Level 1
model that follows, plus
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system: Clearly capture
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itself a modeling
language. It takes a very

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different approach than
data modelers in that
instead of using entities
and entity classes that
represent things in the
world, it is concerned
with accounts that

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the organization. Level 1:
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involved with the

business? The people

involved are not only the

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organization, but
customers, agents, and
others with whom the
organization comes in
contact. Organizations of
interest include the
enterprise itself and its

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own internal departments,
as well as customers,
competitors, government
agencies, and the like. •
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Where is business
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location may be either a geographic area (defined as any bounded area on the Earth), a geographic point (used to identify a particular location), or, if you are an oil company

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for example, a geographic
solid (such as an oil
reserve). • Assets. What
tangible items are used to
carry out the business?
These are any physical
things that are

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manipulated, sometimes as products, but also as the means to producing products and services. • Activities. How is the business carried out? This model not only covers

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services offered, but also
projects and any other
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addition, the model
describes the events that
cause activities to
happen. • Time. All data

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is positioned in time, but
some more than others.

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Laboratory Level 3:

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model can have to address
what is truly unique in a
particular industry. Here

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you see how to address the
unique bits in areas as
diverse as: • Criminal
Justice. The model
presented here is based on
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Data Model” (GJXDM) . •

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Microbiology • Banking.
The model presented here
is the result of working
for four different banks
and then adding some
thought to come up with
something different from

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what is currently in any
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framework for scoping data projects
Understand how to pin down the
details of an idea, receive feedback,
and begin prototyping Use the tools

of arguments to ask good questions,
build projects in stages, and

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