

# **Data Widget**

**Charles R. Portwood II**

### Fundamental Approaches to Software Engineering

Juan de Lara, Andrea Zisman, 2012-03-22 This book constitutes the refereed proceedings of the 15th International Conference on Fundamental Approaches to Software Engineering, FASE 2012, held in Tallinn, Estonia, in March/April 2012, as part of ETAPS 2012, the European Joint Conferences on Theory and Practice of Software. The 33 full papers presented together with one full length invited talk were carefully reviewed and selected from 134 submissions. The papers are organized in topical sections on software architecture and components, services, verification and monitoring, intermodelling and model transformations, modelling and adaptation, product lines and feature-oriented programming, development process, verification and synthesis, testing and maintenance, and slicing and refactoring.

### **DATA SCIENCE FOR GROCERIES MARKET ANALYSIS, CLUSTERING, AND PREDICTION WITH PYTHON GUI**

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-05-03 The objective of this data science project is to analyze and predict customer behavior in the groceries market using Python and create a graphical user interface (GUI) using PyQt. The project encompasses various stages, starting from exploring the dataset and visualizing the distribution of features to RFM analysis, K-means clustering, predicting clusters with machine learning algorithms, and implementing a GUI for user interaction. The first step in this project involves exploring the dataset. We load the dataset containing information about customers' purchases in the groceries market and examine its structure. We check for missing values and perform data preprocessing if necessary, ensuring the dataset is ready for analysis. This initial exploration allows

us to gain a better understanding of the data and its characteristics. Following the dataset exploration, we conduct exploratory data analysis (EDA). This step involves visualizing the distribution of different features within the dataset. By creating histograms, box plots, scatter plots, and other visualizations, we gain insights into the patterns, trends, and relationships within the data. EDA helps us identify outliers, understand feature distributions, and uncover potential correlations between variables. After the EDA phase, we move on to RFM analysis. RFM stands for Recency, Frequency, and Monetary analysis. In this step, we calculate three key metrics for each customer: recency (how recently a customer made a purchase), frequency (how often a customer made purchases), and monetary value (how much a customer spent). RFM analysis allows us to segment customers based on their purchasing behavior, identifying high-value customers and those who require re-engagement strategies. Once we have the clusters, we can utilize machine learning algorithms to predict the cluster for new or unseen customers. We train various models, including logistic regression, support vector machines, decision trees, k-nearest neighbors, random forests, gradient boosting, naive Bayes, adaboost, XGBoost, and LightGBM, on the clustered data. These models learn the patterns and relationships between customer features and their assigned clusters, enabling us to predict the cluster for new customers accurately. To evaluate the performance of our models, we utilize metrics such as accuracy, precision, recall, and F1-score. These metrics allow us to measure the models' predictive capabilities and compare their performance across different algorithms and preprocessing techniques. By assessing the models' performance, we can select the most suitable model for cluster prediction in the groceries

market analysis. In addition to the analysis and prediction components, this project aims to provide a user-friendly interface for interaction and visualization. To achieve this, we implement a GUI using PyQt, a Python library for creating desktop applications. The GUI allows users to input new customer data and predict the corresponding cluster based on the trained models. It provides visualizations of the analysis results, including cluster distributions, confusion matrices, and decision boundaries. The GUI allows users to select different machine learning models and preprocessing techniques through radio buttons or dropdown menus. This flexibility empowers users to explore and compare the performance of various models, enabling them to choose the most suitable approach for their specific needs. The GUI's interactive nature enhances the usability of the project and promotes effective decision-making based on the analysis results. In conclusion, this project combines data science methodologies, including dataset exploration, visualization, RFM analysis, K-means clustering, predictive modeling, and GUI implementation, to provide insights into customer behavior and enable accurate cluster prediction in the groceries market. By leveraging these techniques, businesses can enhance their marketing strategies, improve customer targeting and retention, and ultimately drive growth and profitability in a competitive market landscape. The project's emphasis on user interaction and visualization through the GUI ensures that businesses can easily access and interpret the analysis results, making informed decisions based on data-driven insights.

### **THREE DATA SCIENCE PROJECTS FOR RFM ANALYSIS, K-MEANS CLUSTERING, AND MACHINE LEARNING BASED PREDICTION WITH PYTHON GUI**

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-05-11

## PROJECT 1: RFM ANALYSIS AND K-MEANS

### CLUSTERING: A CASE STUDY ANALYSIS, CLUSTERING, AND PREDICTION ON RETAIL STORE TRANSACTIONS

WITH PYTHON GUI The dataset used in this project is the

detailed data on sales of consumer goods obtained by

'scanning' the bar codes for individual products at

electronic points of sale in a retail store. The dataset

provides detailed information about quantities,

characteristics and values of goods sold as well as their

prices. The anonymized dataset includes 64.682

transactions of 5.242 SKU's sold to 22.625 customers

during one year. Dataset Attributes are as follows: Date of

Sales Transaction, Customer ID, Transaction ID, SKU

Category ID, SKU ID, Quantity Sold, and Sales Amount

(Unit price times quantity. For unit price, please divide

Sales Amount by Quantity). This dataset can be analyzed

with RFM analysis and can be clustered using K-Means

algorithm. The machine learning models used in this

project to predict clusters as target variable are K-Nearest

Neighbor, Random Forest, Naive Bayes, Logistic

Regression, Decision Tree, Support Vector Machine,

LGBM, Gradient Boosting, XGB, and MLP. Finally, you will

plot boundary decision, distribution of features, feature

importance, cross validation score, and predicted values

versus true values, confusion matrix, learning curve,

performance of the model, scalability of the model, training

loss, and training accuracy. PROJECT 2: DATA SCIENCE

FOR GROCERIES MARKET ANALYSIS, CLUSTERING,

AND PREDICTION WITH PYTHON GUI RFM analysis used

in this project can be used as a marketing technique used

to quantitatively rank and group customers based on the

recency, frequency and monetary total of their recent

transactions to identify the best customers and perform

targeted marketing campaigns. The idea is to segment

customers based on when their last purchase was, how often they've purchased in the past, and how much they've spent overall. Clustering, in this case K-Means algorithm, used in this project can be used to place similar customers into mutually exclusive groups; these groups are known as "segments" while the act of grouping is known as segmentation. Segmentation allows businesses to identify the different types and preferences of customers/markets they serve. This is crucial information to have to develop highly effective marketing, product, and business strategies. The dataset in this project has 38765 rows of the purchase orders of people from the grocery stores. These orders can be analyzed with RFM analysis and can be clustered using K-Means algorithm. The machine learning models used in this project to predict clusters as target variable are K-Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, LGBM, Gradient Boosting, XGB, and MLP. Finally, you will plot boundary decision, distribution of features, feature importance, cross validation score, and predicted values versus true values, confusion matrix, learning curve, performance of the model, scalability of the model, training loss, and training accuracy.

### PROJECT 3: ONLINE RETAIL CLUSTERING AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI

The dataset used in this project is a transnational dataset which contains all the transactions occurring between 01/12/2010 and 09/12/2011 for a UK-based and registered non-store online retail. The company mainly sells unique all-occasion gifts. Many customers of the company are wholesalers. You will be using the online retail transnational dataset to build a RFM clustering and choose the best set of customers which the company should target. In this project, you will perform Cohort analysis and RFM analysis. You will also

perform clustering using K-Means to get 5 clusters. The machine learning models used in this project to predict clusters as target variable are K-Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, LGBM, Gradient Boosting, XGB, and MLP. Finally, you will plot boundary decision, distribution of features, feature importance, cross validation score, and predicted values versus true values, confusion matrix, learning curve, performance of the model, scalability of the model, training loss, and training accuracy.

### *Data Mining with Rattle and R* Graham

Williams, 2011-08-04 Data mining is the art and science of intelligent data analysis. By building knowledge from information, data mining adds considerable value to the ever increasing stores of electronic data that abound today. In performing data mining many decisions need to be made regarding the choice of methodology, the choice of data, the choice of tools, and the choice of algorithms. Throughout this book the reader is introduced to the basic concepts and some of the more popular algorithms of data mining. With a focus on the hands-on end-to-end process for data mining, Williams guides the reader through various capabilities of the easy to use, free, and open source Rattle Data Mining Software built on the sophisticated R Statistical Software. The focus on doing data mining rather than just reading about data mining is refreshing. The book covers data understanding, data preparation, data refinement, model building, model evaluation, and practical deployment. The reader will learn to rapidly deliver a data mining project using software easily installed for free from the Internet. Coupling Rattle with R delivers a very sophisticated data mining environment with all the power, and more, of the many

commercial offerings.

## **DATA SCIENCE WORKSHOP: Alzheimer's Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI** Vivian

Siahaan, 2023-08-21 In the Data Science Workshop: Alzheimer's Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI, the project aimed to address the critical task of Alzheimer's disease prediction. The journey began with a comprehensive data exploration phase, involving the analysis of a dataset containing various features related to brain scans and demographics of patients. This initial step was crucial in understanding the data's characteristics, identifying missing values, and gaining insights into potential patterns that could aid in diagnosis. Upon understanding the dataset, the categorical features' distributions were meticulously examined. The project expertly employed pie charts, bar plots, and stacked bar plots to visualize the distribution of categorical variables like Group, M/F, MMSE, CDR, and age\_group. These visualizations facilitated a clear understanding of the demographic and clinical characteristics of the patients, highlighting key factors contributing to Alzheimer's disease. The analysis revealed significant patterns, such as the prevalence of Alzheimer's in different age groups, gender-based distribution, and cognitive performance variations. Moving ahead, the project ventured into the realm of predictive modeling. Employing machine learning techniques, the team embarked on a journey to develop models capable of predicting Alzheimer's disease with high accuracy. The focus was on employing various machine learning algorithms, including K-Nearest Neighbors (KNN), Decision Trees, Random Forests, Gradient Boosting, Light Gradient Boosting, Multi-Layer Perceptron, and Extreme



Gradient Boosting. Grid search was applied to tune hyperparameters, optimizing the models' performance. The evaluation process was meticulous, utilizing a range of metrics such as accuracy, precision, recall, F1-score, and confusion matrices. This intricate analysis ensured a comprehensive assessment of each model's ability to predict Alzheimer's cases accurately. The project further delved into deep learning methodologies to enhance predictive capabilities. An arsenal of deep learning architectures, including Artificial Neural Networks (ANN), Long Short-Term Memory (LSTM) networks, Feedforward Neural Networks (FNN), and Recurrent Neural Networks (RNN), were employed. These models leveraged the intricate relationships present in the data to make refined predictions. The evaluation extended to ROC curves and AUC scores, providing insights into the models' ability to differentiate between true positive and false positive rates. The project also showcased an innovative Python GUI built using PyQt. This graphical interface provided a user-friendly platform to input data and visualize the predictions. The GUI's interactive nature allowed users to explore model outcomes and predictions while seamlessly navigating through different input options. In conclusion, the Data Science Workshop: Alzheimer's Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI was a comprehensive endeavor that involved meticulous data exploration, distribution analysis of categorical features, and extensive model development and evaluation. It skillfully navigated through machine learning and deep learning techniques, deploying a variety of algorithms to predict Alzheimer's disease. The focus on diverse metrics ensured a holistic assessment of the models' performance, while the innovative GUI offered an intuitive platform to engage with

predictions interactively. This project stands as a testament to the power of data science in tackling complex healthcare challenges.

*The Semantic Web: ESWC 2014 Satellite Events*  
Valentina Presutti, Eva Blomqvist, Raphaël Troncy, Harald Sack, Ioannis Papadakis, Anna Tordai, 2014-10-15 This book constitutes the thoroughly refereed post-conference proceedings of the Satellite Events of the 11th International Conference on the Semantic Web, ESWC 2014, held in Anissaras, Crete, Greece, in May 2014. The volume contains 20 poster and 43 demonstration papers, selected from 113 submissions, as well as 12 best workshop papers selected from 60 papers presented at the workshop at ESWC 2014. Best two papers from AI Mashup Challenge are also included. The papers cover various aspects of the Semantic Web.

*Practical Data Science Programming for Medical Datasets Analysis and Prediction with Python GUI*  
Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-06-23 In this book, you will implement two data science projects using Scikit-Learn, Scipy, and other libraries with Python GUI. In chapter 1, you will learn how to use Scikit-Learn, SVM, NumPy, Pandas, and other libraries to perform how to predict early stage diabetes using Early Stage Diabetes Risk Prediction Dataset (<https://viviansiahaan.blogspot.com/2023/06/practical-data-science-programming-for.html>). This dataset contains the sign and symptom data of newly diabetic or would be diabetic patient. This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet, Bangladesh and approved by a doctor. The dataset consist of total 15 features and one target variable named class. Age: Age in years ranging from (20years to 65 years); Gender: Male / Female; Polyuria: Yes

/ No; Polydipsia: Yes/ No; Sudden weight loss: Yes/ No; Weakness: Yes/ No; Polyphagia: Yes/ No; Genital Thrush: Yes/ No; Visual blurring: Yes/ No; Itching: Yes/ No; Irritability: Yes/No; Delayed healing: Yes/ No; Partial Paresis: Yes/ No; Muscle stiffness: yes/ No; Alopecia: Yes/ No; Obesity: Yes/ No; This dataset contains the sign and symptomp data of newly diabetic or would be diabetic patient. This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet, Bangladesh and approved by a doctor. You will develop a GUI using PyQt5 to plot distribution of features, feature importance, cross validation score, and prediced values versus true values. The machine learning models used in this project are Adaboost, Random Forest, Gradient Boosting, Logistic Regression, and Support Vector Machine. In chapter 2, you will learn how to use Scikit-Learn, NumPy, Pandas, and other libraries to perform how to analyze and predict breast cancer using Breast Cancer Prediction Dataset

(<https://viviansiahaan.blogspot.com/2023/06/practical-data-science-programming-for.html>). Worldwide, breast cancer is the most common type of cancer in women and the second highest in terms of mortality rates. Diagnosis of breast cancer is performed when an abnormal lump is found (from self-examination or x-ray) or a tiny speck of calcium is seen (on an x-ray). After a suspicious lump is found, the doctor will conduct a diagnosis to determine whether it is cancerous and, if so, whether it has spread to other parts of the body. This breast cancer dataset was obtained from the University of Wisconsin Hospitals, Madison from Dr. William H. Wolberg. You will develop a GUI using PyQt5 to plot distribution of features, pairwise relationship, test scores, prediced values versus true values, confusion matrix, and decision boundary. The

machine learning models used in this project are K-Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, and Support Vector Machine.

Pro Salesforce Analytics Cloud William Smith, Helen Sun, 2015-12-31 In this age of data economy, data analytics is recognized as a key differentiator for companies trying to gain a sustainable competitive advantage and outperform their peers. However, the complexity of establishing an analytical architecture due to a wide array of disparate technical capabilities offered by a plethora of vendors makes the deployment of an on-premise solution a daunting task. For this reason, the Salesforce Analytics Cloud has captured the imagination from of both IT and business communities. The Salesforce Analytics Cloud represents the rethinking of analytics for the business user. The Analytics Cloud is a cloud-based platform designed for the business user to have access to analytics on the go, providing answers to questions instantly on any device. This mobile-ready capability of the Salesforce Analytics Cloud means users can immediately collaborate and share insights with team members right inside Salesforce. Pro Salesforce Analytics Cloud provides actionable guidance on creating analytical capabilities using Salesforce Analytics Cloud. The book offers:  
• A practical guide to Salesforce Analytics Cloud, including Wave Platform, Builder, and Explorer.  
• Detailed business analytics use cases in various industries (e.g., retail, healthcare, financial services, and telecommunications).  
• Architecture and best practices for integration, security, hybrid cloud coexistence, and governance.  
Pro Salesforce Analytics Cloud is the first comprehensive book on Salesforce Analytics and provides a holistic architecture view of different analytical capabilities and how they fit into the overall

information architecture. It features real-world industry use cases and demonstrates how Salesforce's Analytics Cloud solves business challenges and brings real value to the organization.

*Advances in Data Science and Artificial Intelligence*

Rajiv Misra, Nishtha Kesswani, Muttukrishnan Rajarajan, Bharadwaj Veeravalli, Imene Brigui, Ashok Patel, T. N. Singh, 2023-05-13 With the intriguing development of technologies in several industries along with the advent of accrescent and ubiquitous computational resources, it creates an ample number of opportunities to develop innovative intelligence technologies in order to solve the wide range of uncertainties, imprecision, and vagueness issues in various real-life problems. Hybridizing modern computational intelligence with traditional computing methods has attracted researchers and academicians to focus on developing innovative AI techniques using data science. International Conference on Data Science and Artificial Intelligence (ICDSAI) 2022, organized on April 23-24, 2022 by the Indian Institute of Technology, Patna at NITIE Mumbai (India) in collaboration with the International Association of Academicians (IAASSE) USA collected scientific and technical contributions with respect to models, tools, technologies, and applications in the field of modern Artificial Intelligence and Data Science, covering the entire range of concepts from theory to practice, including case studies, works-in-progress, and conceptual explorations.

Flutter Complete Reference 2.0 Alberto

Miola, 2023-05-20 Dart is a modern programming language developed by Google designed to be fast, efficient, and flexible. Flutter is an open-source framework that uses Dart for natively compiling beautiful applications that run

on mobile, web, and desktop platforms. Together they offer a robust, streamlined development environment for building high-quality projects. This book is the perfect resource for developers looking to dive into the world of Dart and Flutter to create cutting-edge, cross-platform applications. - The book's first eight chapters are dedicated to Dart 3.0 and all its features. Nothing is given for granted: every aspect of the language is dissected and explained in detail. - We have dedicated over five hundred pages to the Flutter framework. The book covers the widgets basics, the state management solutions, animations, the navigation APIs, and more. - The book has many suggestions and good practices from Dart's and Flutter's official documentation. We have also added recommendations based on the professional experience we have grown over the years. - Theory and simple examples help understand concepts, but seeing the code in action is also very important. We have filled the chapters with examples and comments to help you understand concepts more quickly.

### **Why AI/Data Science Projects Fail** Joyce

Weiner, 2022-06-01 Recent data shows that 87% of Artificial Intelligence/Big Data projects don't make it into production (VB Staff, 2019), meaning that most projects are never deployed. This book addresses five common pitfalls that prevent projects from reaching deployment and provides tools and methods to avoid those pitfalls. Along the way, stories from actual experience in building and deploying data science projects are shared to illustrate the methods and tools. While the book is primarily for data science practitioners, information for managers of data science practitioners is included in the Tips for Managers sections.

### **Research and Development in Intelligent Systems**

**XVIII** Frans Coenen, Alun Preece, 2012-12-06 M.A. BRAMER University of Portsmouth, UK This volume comprises the refereed technical papers presented at ES200 I, the Twenty-first SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence, held in Cambridge in December 200 I, together with an invited keynote paper by Professor Derek Sleeman. The conference was organised by SGES, the British Computer Society Specialist Group on Knowledge Based Systems and Applied Artificial Intelligence. The papers in this volume present new and innovative developments in the field, divided into sections on Machine Learning, Constraint Satisfaction, Agents, Knowledge Representation, Knowledge Engineering, and Intelligent Systems. The refereed papers begin with a paper entitled 'Detecting Mismatches Among Experts' Ontologies Acquired Through Knowledge Elicitation', which describes a systematic approach to the analysis of discrepancies within and among experts' ontologies. This paper was judged to be the best refereed technical paper submitted to the conference. The remaining papers are devoted to topics in important areas such as agents, knowledge engineering, knowledge representation, planning and constraint satisfaction, with machine learning again the largest topic covered in terms of the number of papers accepted for publication. This is the eighteenth volume in the Research and Development series. The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems IX.

**IBM Service Management Suite for z/OS with Service Management Unite** Lorin Ullmann, Carol Davis, Michael Gouveia, Arthur McDonald, Wolfgang Schaeberle, IBM Redbooks, 2017-02-01 IBM® Service

Management Suite for z/OS provides operators a transparent view of the IBM z Systems® compute landscape, including central electronic complexes (CECs), LPARs, and Sysplexes with key performance indicators for improved problem isolation, analysis, and diagnosis. This IBM Redbooks® Solution Guide describes Service Management Suite for z/OS and its new user interface, IBM Service Management Unite, and includes high-level architectures (for each solution) with their key components. The guide also explains the integration of Service Management Unite with Service Management Suite for z/OS components and integration with other IBM products and third-party solutions to create a comprehensive solution. The business value and usage scenarios are also included.

**Medical Informatics and Data Analysis** Pentti Nieminen, 2021-03-02 During recent years, the use of advanced data analysis methods has increased in clinical and epidemiological research. This book emphasizes the practical aspects of new data analysis methods, and provides insight into new challenges in biostatistics, epidemiology, health sciences, dentistry, and clinical medicine. This book provides a readable text, giving advice on the reporting of new data analytical methods and data presentation. The book consists of 13 articles. Each article is self-contained and may be read independently according to the needs of the reader. The book is essential reading for postgraduate students as well as researchers from medicine and other sciences where statistical data analysis plays a central role.

Service-Driven Approaches to Architecture and Enterprise Integration Ramanathan, Raja, 2013-06-30 While business functions such as manufacturing, operations, and marketing often utilize various software applications, they



tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

**Advanced Information Systems Engineering** Zohra Bellahsène, Michel Léonard, 2008-06-08 CAiSE

2008 was the 20th in the

series of International Conferences on Advanced Information System Engineering. This edition continued the success of previous conferences, a success largely due to that fact that, since its first edition, this series has evolved in parallel with the evolution of the importance of information systems in economic development. CAiSE has been able to follow, and often to anticipate, important changes that have occurred since 1978 when the first CAiSE conference was organized by Arne Sølvberg and Janis Bubenko. In all these years, modern businesses and IT systems have been facing an ever more complex environment characterized by openness, variety and change. Furthermore, enterprises are experiencing ever more variety in their business in many dimensions. In the same way, the explosion of information technologies is overwhelming with a multitude of languages, platforms, devices, standards and products. Thus enterprises need to manage an environment to

monitor the interplay of changes in the business processes, in information technologies, and at the ontological level, in order to achieve a sustainable development of their information systems. Enterprises must enter the era of sustainable information systems to face the important developmental challenges. During all these years, CAiSE researchers have been challenged by all these changes, and the CAiSE conferences provide a forum for present ing and debating important scienti?c results. In fact, CAiSE is positioned at the core of these tumultuous processes, hosting new emerging ideas, fostering innovative processes of design and evaluation, developing new information technologies adapted to information systems, creating new kinds of models, but always being subject to rigorous scienti?c selection.

Mastering Yii Charles R. Portwood II, 2016-01-28

Advance your modern web application development skills with Yii Framework 2 About This Book Learn to work with the key aspects of Yii Framework 2 Explore how to create RESTful APIs with Yii Incorporate codeception with Yii2 to test your code thoroughly Who This Book Is For This book is for Yii Framework developers who want to quickly master Yii2. This book assumes some familiarity with Yii2, PHP 5, and HTML5. What You Will Learn Explore Yii2's conventions and learn how to properly configure Yii2 Create both web and console applications Reduce development time by learning to create classes automatically with Gii, Yii2's automatic code generation tool Use Yii2's database migration tool Manage and access databases with Active Record, DAO, and Query Builder Handle user authentication and authorization within Yii2 Create RESTful APIs with Yii Framework 2 Test applications automatically with codeception In Detail The successor of Yii Framework 1.1, Yii2 is a complete rewrite

of Yii Framework, one of the most popular PHP 5 frameworks for making modern web applications. The update embraces the best practices and protocols established with newer versions of PHP, while still maintaining the simple, fast, and extendable behavior found in its predecessor. This book has been written to enhance your skills and knowledge with Yii Framework 2. Starting with configuration and how to initialize new projects, you'll learn how to configure, manage, and use every aspect of Yii2 from Gii, DAO, Query Builder, Active Record, and migrations, to asset manager. You'll also discover how to automatically test your code using codeception. With this book by your side, you'll have all the skills you need to quickly create rich modern web and console applications with Yii2. Style and approach This book is a step-by-step guide to mastering every aspect of Yii Framework 2. Each chapter outlines a new set of tools along with code that can be used to efficiently create modern web and console applications

**Python for Data Analysis** Brady Ellison, Ready to learn Data Science through Python language? Python for Data Analysis is a step-by-step guide for beginners and dabblers-alike. This book is designed to offer working knowledge of Python and data science and some of the tools required to apply that knowledge. It's possible that you have little experience with or knowledge of data analysis and are interested in it. You might have some experience in coding. You may have worked with data before and want to use Python. We have made this book in a way that will be helpful to all these groups and more besides in varying ways. This can serve as an introduction to the most current tools and functions of those tools used by data scientists. In this book You will learn: Data Science/Analysis and its applications IPython and Jupyter -

an introduction to the basic tools and how to navigate and use them. You will also learn about its importance in a data scientist's ecosystem. Pandas - a powerful data management Python library that lets you do interesting things with data. You will learn all the basics you need to get started. NumPy - a powerful numerical library for Python. You will learn more about its advantages. Get your copy now

*Proceedings of the 17'th Annual Tcl/Tk Conference* Tcl Association, 2010-12-02

Professional iOS Database Application Programming  
Patrick Alessi, 2013-04-10 Updated and revised coverage that includes the latest versions of iOS and Xcode Whether you're a novice or experienced developer, you will want to dive into this updated resource on database application programming for the iPhone and iPad. Packed with more than 50 percent new and revised material - including completely rebuilt code, screenshots, and full coverage of new features pertaining to database programming and enterprise integration in iOS 6 - this must-have book intends to continue the precedent set by the previous edition by helping thousands of developers master database application programming. Shows you how to store data using SQLite, model and manage data using Core Data, and integrate with Web Services Explains how to take advantage of the built-in capabilities of the iPhone and iPad Details techniques for integrating iOS applications into enterprise class systems Encourages you to take advantage of multi-core processors, store data in the cloud, and use storyboards to develop the UI for your app By the end of the book, you will be able to confidently implement a data driven application for the iPhone and iPad and integrate an iOS application within an existing enterprise system.

Enjoying the Track of Term: An Psychological Symphony within **Data Widget**

In a global used by screens and the ceaseless chatter of quick conversation, the melodic beauty and psychological symphony developed by the written term usually disappear into the backdrop, eclipsed by the relentless noise and disruptions that permeate our lives. However, set within the pages of **Data Widget** a stunning literary value filled with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts viewers on an emotional trip, well unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths with this moving examination, we will discover the book is main harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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| <p>8. Staying Engaged with Data Widget</p> <ul style="list-style-type: none"> <li>◦ Joining Online Reading Communities</li> <li>◦ Participating in Virtual Book Clubs</li> <li>◦ Following</li> </ul> | <p>9. Balancing eBooks and Physical Books Data Widget</p> <ul style="list-style-type: none"> <li>◦ Benefits of a Digital Library</li> <li>◦ Creating a Diverse Reading Collection Data Widget</li> </ul> | <p>11. Cultivating a Reading Routine Data Widget</p> <ul style="list-style-type: none"> <li>◦ Setting Reading Goals Data Widget</li> <li>◦ Carving Out Dedicated Reading Time</li> </ul> |
|   | <p>10. Overcoming Reading Challenges</p> <ul style="list-style-type: none"> <li>◦ Dealing with Digital Eye Strain</li> <li>◦ Minimizing</li> </ul>   | <p>12. Sourcing Reliable Information of Data Widget</p> <ul style="list-style-type: none"> <li>◦ Fact-Checking eBook Content of Data</li> </ul>  |

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