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Ecological Observatory Network (NEON) data sets through its API. pdxTrees v0.4.0: A dataset set from Portland Parks and Recreation that creates every tree in more than a hundred and seventy parks and along roads in ninety-six neighborhoods. Look at the sketches. Genomic hiphop v0.0.1: Applies a method to compare hereditary genotypes with potential parent combinations, and prints the number of mismatched these individuals on bi-allelic genetic markers that can be used for paternity and maternity assignments. See Huisman (2017) for background, and sketches for an introduction. RapidoPGS v1.0.2: Provides a function to quickly calculate polygenic scores from GWAS summary statistics either from case control properties or quantitative without LD matrix computation or parameter tuning. See Reales et al. (2020) for details and sketches for example. SynthETIC Insurance v0.1.0: Implements an individual claims simulator that generates synthetic data that mimics various features of non-life insurance claims. See Avanzi et al. (2020) for background and see sketches for example. Machine Learning sparklyr.flint v0.1.1: Expand sparklyr to include Flint time series functionality. Vignettes include Importing Data and RDD Time Series. torch v0.0.3: Provides functionality for defining and training neural networks similar to PyTorch by Paszke et al (2019) but written entirely in R. There are sketches on Extending Autograd, Indexing tensors, Loading data, Creating tensors, and Using autograd. Mathematical gasper v1.0.1: Provides standard operation for signal processing on graphs including Fourier chart transformation, spectral graph wave transformation, visualization tool. See De Loynes et al. (2019) for background and sketch packages. GeodRegr v0.1.0: Provides a gradient drop algorithm for finding geodesic relationships between variables real value and dependent variables are manifold values (i.e. geodesic regression). geodesics). Manifolds are Euclidean space, ball, and Kendall's 2-dimensional shape space. View Shin && Oh (2020), Fletcher (2013), Kim et al. (2104)] for background. geos v0.0.1: Provides API R to Geometry Engine Open Source library and vector format to store GEOS geometry efficiently. See README as an example. pcSteiner v1.0.0: Provides a function to obtain an approximate solution to the prize winning the steiner tree problem looking for a subgraph that connects a given set of nodes with the most expensive nodes and the cheapest edges. This implementation uses loopy belief propagation algorithm. There's a tutorial. TCIU v1.1.0: Provides core functionality for converting longitudinal data into complex time data (kime) using analytical and numerical techniques, visualizing original time series and reconstructed kime surfaces, performing model-based (e.g., tensor-linear regression) and free classification of models and grouping methods. View Dinov && Velev (2021) for background. There are sketches in Laplace Transform and Kime Surface Transforms and TCIU Analytics Workflows. Epigraphdb drug v0.2.1: Provides access to the EpiGraphDB platform. There are overviews, sketches on APIs, Platform Functions, Meta Functions and three case studies on SNP protein associations, Drug Targets and Kausal Evidence. raveio v0.0.3: implements an interface to the RAVE project (R analysis and visualization of human intracranial electroencephalography data) aimed at analyzing brain recordings of patients with electrodes placed on the cortical surface or inserted into the brain. See Mafnotti et al. (2020) for background. tboot v0.2.0: Provides a function to simulate clinical trial data with realistic correlation structures and assumes a degree of efficacy by using an oblique bootstrap resampling approach. There's a tutorial on The Tilted Bootstrap and another at Bayesian Marginal Reconstruction. BayesMRA v1.0.0 statistics: Matches bayesian multi-resolution spatial models that rarely use the Monte Carlo Markov Chain. Look at the sketches. bsem v1.0.0: Implements a function to enable modeling of structural equations for specific cases using rstan which includes bayesian semi-confirmation factor analysis, confirmation factor analysis, and structural equation model. See Mayrink (2013) for background and sketches: Starting and Exploring bsem classes. cyclomort v1.0.2: Provides a function for performing survival modeling with periodic hazard functions. See Gurarie et al. (2020) and sketch for details. ebmstate v0.1.1: Implements empirical Bayes, a multi-state Cox model for survival analysis. See Schall (1991) for details. fairmodels v0.2.2: Provides a function to measure fairness for several models including measuring model bias different races, genders, nationalities, etc. There are Basic and Advanced tutorials. MGMM v0.3.1: Apply grouping normal multivariate random vector with missing elements. Grouping is achieved by installing a Gaussian Mixed Model (GMM). See McCaw et al. (2019) for details, and sketches for example. rmsb v0.0.1: Is a Bayesian companion for RMS packages that provide Bayesian model fitting, post-fit and graphics estimation, and implement Bayesian regression models whose objects are suitable can be processed by the rms function. See here for more information. RoBMA v1.0.4: Implements a framework for estimating the ensemble of meta-analytical models (assuming there is or is no effect, heterogeneity, and publication bias) and uses the average Bayesian model to combine them. See Maier et al. (2020) for background and sketches: Fit custom meta-analytical ensembles, BMA Reproduction, and Warnings and common errors. tTOlr v0.2: Applies statistical ratio of probability to one and two t-test samples. There are two sketches: The Ratio of False Positive Possibilities and Risks and P values – Use, Abuse, and Alternatives. Time Series fable.prophet v0.1.0: Allows the prophet model to be used in neat work streams created with fabletool. See sketches for introductions. gamma v0.9.3: Provides a method for estimating gegenbauer's long seasonal memory/cyclonic time series process. See Dissanayake et al. (2018) for background and sketches for model fitting details. free v0.2.0: Generates a time series based on mixed autoregressive models. See Kang et al. (2020) for background and sketches for a package introduction. rhosa v0.1.0: Implements higher order spectra or polyspectra analysis for time series. Brillinger && Irizarry (1998) and Lii && Helland (1981) for background and sketches for example. DataEditR Utilities v0.0.5: Implements an interactive editor to enable interactive viewing, entering, and editing of data in R. View sketches for details. equatiomatic v0.1.0: Simplifies LaTeX formula writing by providing a function that retrieves mounted model objects as inputs and returns the appropriate LaTeX code for the model. There is an Introduction and sketch about The Starschemar Test and Coverage v1.1.0: Provides a function to get the star scheme from a flat table. The sketch displays several examples. Glow visualization v0.10.1: Provides a framework for creating plots with glowing dots. See sketches for example. graph3d v0.1.0 Implements wrappers for vis-graph JavaScript libraries that let users create three-dimensional interactive visualizations. See here for example. jsTreeR v0.1.0: Provides a function for implementing interactive trees to represent hierarchical data that can be included in Shiny applications and R markdown documents. See here for example. KMunicate v0.1.0: Provides a function to generate plots recommended style following the study of KMunicate by Morris et al. (2019). View View E.g. rAmCharts4 v0.1.0: Provides a function for creating JavaScript charts that can be included in Shiny applications and R Markdown documents, or viewed from the R console and RStudio viewer. See here for example. tabularmap v0.1.0: Provides a function for creating tabular maps, a visualization method to efficiently display data consisting of multiple elements by mapping them. When dealing with geospatial data, they correct visibility differences between regions. Look here and in the sketch for example. Two hundred and thirty-six new packages made it to CRAN in September. Here is my top 40 choice in eleven categories: Computational Methods, Data, Finance, Genomics, Machine Learning, Mathematics, Medicine, Statistics, Time Series, Utilities and Visualization. The number of plans and, in my opinion, a high percentage of high-quality jobs makes choosing just forty more difficult than most months. Computational Method pmwg v0.1.9: Provides the R implementation of the Metropolis Particle algorithm in gibbs sampler for model parameters. Covariance matrix and random effect estimation are described in Gunawan et al. (2020). There's a tutorial. sanic v0.0.1: Provides access to eigen C++ library routines to solve large systems of linear equations. Available direct and iterative solvers include the Cholesky, LU, QR, and Krylov subspace methods. Cmsafops data v1.0.0: Provides functionality for the analysis and manipulation of SAF CM climate monitoring data. Detailed information and test data are available here. friends v0.1.0: Provides completed the script of the American sitcom Friends in tibble format. Use this package to practice data bickering, text analysis, and network analysis. See README for example. nflfastR v3.0.0: Provides a function to access National Football League play-by-play data. See here for example. od v0.0.1: Provides tools and sample data sets for working with the original destination dataset ('OD') of the kind used to describe carey et al. aggregate urban mobility patterns (1981) and support pebesma sF class systems (2018). See a sketch of a brief introduction to OD data. GARCHito Insurance v0.1.0: Provides a function to estimate model parameters and estimate future volatility using UNified GARCH-Ito Kim and Wang (2016) and GARCH-Ito Song et. al. (2020) model. See sketches for introductions. LifeInsuranceContracts v0.0.2: Provides a framework for modeling traditional life insurance contracts such as annuities, whole life insurance or endowments and includes modeling of profit participation schemes, dynamic upgrades or more general contract layers, as well as contract changes. See sketches for details. Genomics dPCR v1.0.3: Implements grouping and quantification of digital PCR data automatically based on DBSCAN (Hahsler et al. (2019) dan c-means c-means algorithm et l. (1981). See sketches for example. MAPITR v1.1.2: Implements the algorithm described in Turchin et al. (2020) to identify marginal epistasis between pathways and other genomes. See sketches for examples with simulated data. Machine Learning FuncNN v1.0: It Allows users to build form models: f(z, g(x) | s) where f() is neural networks, z is scalar covariates vectors, and g(x) is a functional covariates vector. This package is built on Hard T/tensorflow architecture. See Thind et al. (2020) for information on methodology, and README for example. shapr 0.1.3: Implementing a method for calculating the Value of Shapley that contributes to the independence of features as described in Aas et al. (2019) to help interpret machine learning models. See sketches for details. rMIDAS v0.1.0: Implements methods for multiple imputation using denoising autoencoders described in Lall && Robinson (2020) has the advantage of big data sets. Riemann Math v0.1.0: Provides algorithms for manifold value data, including Fréchet summaries, hypothesis testing, grouping, visualization, and other learning tasks. Search here for math. simplextree v1.0.1: Provides an interface to the Simplex Tree data structure that enables efficient simple complex manipulation of any dimension. See Boissonnat && Maria (2014) for background and search here to get started quickly. topsa v0.1.0: Provides a function to estimate geometric sensitivity indexes reconstructing dataset embedding manifolds. Detailed information can be found at Hernandez et al. Drug card v0.1.0: Provides tools to help assess the autonomous regulation of cardiovascular physiology with respect to electrocardiography, circadian rhythms, and clinical risks of autonomic dysfunction in cardiovascular health through epidemiological and causality perspectives. For background analysis of circadian rhythms through cosinor analysis see Cornelissen (2014) and Refinetti et al. (2014). There are two sketches: circadian and cosinor. EpiNow2 v1.2.1: Provides a function to estimate the varying number of reproductions of time, deployment rate, and multiplication times using various Abbott et al. (2020) open source tools for background. Gostic et al. (2020) for current best practices, and README for example. psrwe v1.2: Provides tools for incorporating real-world evidence (RWE) into regulatory and health care decision-making and includes functions that apply the proposed PS integrated RWE analysis methods in Wang et al. (2019), Wang et al. (2020), and Chen et al. (2020). There are sketches about the integration of trend scores. Tplyr v0.1.3: Implement tools to simplify table creation and data manipulation needed to clinical reports. There are Getting Started Guides, and sketches on Layers, Options, and Tables. bkmrhat bkmrhat statistics Expanding the bayesian kernel engine regression package bkmrto enables multi-chain inference and diagnostics by utilizing the functionality of future packages, hospitals, and codas. See Bobb et al. (2018) for background and sketches for example. densEstBayes v1.0-1: Provides a function for density estimation through Bayesian inference machines including Hamiltonian Monte Carlo, sampler no U-turn, semiparametric mean field variational Bayes and slice sampling. This methodology is described in Wand and Yu (2020). The sketch has several examples. EquiSurv v0.1.0: Provides a non-parametric and parametric approach to investigating the equality (or non-inferiority) of the two survival curves obtained from the two data sets provided. Tests are based on creating confidence intervals at a predetermined point in time. see Möllenhoff && Tresch (2020) for all the details. gmGeostats v0.10-7: Provides a function to support geostatistic analysis of multivariate data, especially data with restrictions. See Tolosana-Delgado et al. (2018) for background and sketches for the basics. hermiter v1.1.0: Provides functions for estimating full probability density functions, cumulative distribution functions and quantile functions using Hermite series-based estimators that are very useful in sequential (stationary and non-stationary) settings and setting one-pass batch estimation for large data sets. See Stephanou et al. (2017) and Stephanou et al. (2020) for background and sketches for example. ivreg v0.5-0: Implements instrumental variable estimation for linear models with at least two-stage regression (2SLS). Several methods are provided for installed ivreg model objects, including extensive functionality for compute regression diagnostics and graphics in addition to other standard model tools. There are overviews and sketches about diagnostics. mcmcscas v0.5.0: Provides functions to fit multi-level models with random effects that may correlate using Markov Chain Monte Carlo simulations. There are sketches on Area level models, Linear Regression, and Unit level models. rater v1.0.0: Provides functionality that fits the model based on Dawid && Skene (1979) to repeating categorical data. The sketch describes the modeling workflow. testtwice v1.0.3: Implements the Rosenbaum method (2012) to test a single hypothesis with multiple test statistics when correcting for multiple tests. txshift v0.3.4: Provides a function to estimate the caesal effects of population levels from stochastic interventions on exposures of sustained value. The caesal parameters and estimation methodology are described in Diaz && van der Laan (2013). There's a Targeted Learning Introduction and additional sketches with more advanced examples. vacuum v0.1.0: Implement funop tukey (Plot FUll FUNOR-FUNOM (FUll NORmal Rejection-FUll NORmal Modification), dan dan cleaner procedures for identifying, treating, and analyzing outliers in contingency tables. See Tukey (1962). There's a sketch in the vacuum. Time Series localFDA v1.0.0: Implements theoretically supported alternatives to k-closest neighbors for functional data to solve the problem of estimating un observed segments of partially observed functional data samples, functional classification and external detection. The methodology and details are in Elias et al. (2020). See here for some examples. onlineforecast v0.9.3: Implements a framework for adjusting adaptive forecast models that provides a way to use forecasts as input to models, such as weather forecasts for energy-related forecasts. There are sketches on Forecast Evaluation, Model Setup, and Data Setup. Cmdfun utility v1.0.2: Provides a framework for building function calls to interfaces with shell commands by allowing lazy evaluation of command line arguments. It is intended to allow package builders to wrap command line software, and to help analysts stay within the R environment. duckdb v0.2.1-2: DuckDB Project is an embedded analytics data management system with support for Structured Query Language (SQL). This package includes all DuckDB Connectors and R Database Interface (DBI). path.chain v0.2.0: Provides path_chain and functions that facilitate the loading and storage of directory structures in YAML configuration files through configuration packages. There are sketches in Path Validation and more in the Configuration File. procmaps v0.0.3: Provides a function to determine which libraries or other regions are mapped to the specific address of a process. It is equivalent to /proc/self/maps as a data frame, and is designed to work on all major platforms. robservable v0.2.0: Allows loading and displaying Observable JavaScript notebooks online. See Galleries, Introductions, and sketches on Shiny Apps. Visualization by frog v0.9.0: Applies plotting methods and functions to display categorical data on interactive heat maps using plotly. In addition to the viewer panel, the resulting plot can be saved as a standalone HTML file, embedded in an R Markdown document or in a Shiny application. The sketch offers an example. diffviewer v0.1.0: Implements an HTML widget that displays the differences between files (text, images, and data frames). ggip v0.2.0: Expand ggplot2 to enable ip visualization and network (Internet Protocol) using a space fill curve that maps the address space to Cartesian coordinates. It offers full support for IPv4 and IPv6 address spaces. There is an Introduction and sketch on Visualizing IP Data. Data.

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