Package: pinnacle.data (via r-universe)

October 14, 2024

Type Package

Title Market Odds Data from Pinnacle

Version 0.1.5

Author Marco Blume, Michael Yan

Maintainer Marco Blume <marco.blume@pinnaclesports.com>

Description Market odds from from Pinnacle, an online sports betting
bookmaker (see <https://www.pinnacle.com> for more
information). Included are datasets for the Major League
Baseball (MLB) 2016 season and the USA election 2016. These
datasets can be used to build models and compare statistical
information with the information from prediction markets.The
Major League Baseball (MLB) 2016 dataset can be used for
sabermetrics analysis and also can be used in conjunction with
other popular Major League Baseball (MLB) datasets such as
Retrosheets or the Lahman package by merging by GameID.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

URL <https://github.com/marcoblume/pinnacle.data>

Depends tibble

Suggests odds.converter, tidyverse, pinnacle.API, Lahman

Repository https://marcoblume.r-universe.dev

RemoteUrl https://github.com/marcoblume/pinnacle.data

RemoteRef HEAD

RemoteSha ae883e4cdc5eac7418b2b3c86d383205b1cdbe2c

Contents

MLB2016 *MLB2016.*

Description

Major League Baseball (MLB) data for the 2016 season.

Usage

MLB2016

Format

A tibble with 20 variables:

GameID same format as Retrosheets and BaseballReference data

EventDateTimeUTC Time of the game in UTC

EventDateTimeET Time of the game in Eastern Standardtime

AwayTeam Team name of the Away Team

HomeTeam Team name of the Home Team

DoubleHeaderGame Indicates if this was a double Header

AwayStartingPitcher Starting pitcher Away Team

HomeStartingPitcher Starting pitcher Home Team

FinalScoreAway Runs scored by Away Team

FinalScoreHome Runs scored by Home Team

EnteredDateTimeUTC Time of the wager line in UTC

EnteredDateTimeET Time of the wager line in Eastern Standardtime

SpreadTeam1 Spread Handicap for Away Team

SpreadUS1 Spread US odds for Away Team

SpreadUS2 Spread US odds for Home Team

MoneyUS1 Moneyline US odds for Away Team

MoneyUS2 Moneyline US odds for Home Team

TotalPoints Total runs handicap

TotalUSOver Total runs US odds for Over

TotalUSUnder Total runs US odds for Under

Details

All wagering lines from Pinnacle for the 2016 MLB season

Examples

```
if (require("tidyverse")) {
library(tidyverse)
# What was the range of expected total runs according to the prediction market at Pinnacle?
MLB2016 %>%
 unnest() %>%
 group_by(GameID) %>%
 arrange(desc(EnteredDateTimeUTC)) %>%
 slice(1) %>%
 ungroup() %>%
 group_by(TotalPoints) %>%
 summarize(Count = n())

# How many games went Over/Under/Landed on the total?
MLB2016 %>%
 unnest() %>%
 group_by(GameID) %>%
 arrange(desc(EnteredDateTimeUTC)) %>%
 slice(1) %>%
 ungroup() %>%
 select(GameID,TotalPoints,FinalScoreAway,FinalScoreHome) %>%
 mutate(TotalOutcome = case_when(
   FinalScoreAway + FinalScoreHome > TotalPoints ~ "Over",
   FinalScoreAway + FinalScoreHome < TotalPoints ~ "Under",
   FinalScoreAway + FinalScoreHome == TotalPoints ~ "Landed"
 )
 ) %>%
 group_by(TotalPoints,TotalOutcome) %>%
 summarize(Count = n()) %>%
 print(n=100)
}
```

USA_Election_2016 *USA_Election_2016*

Description

US Presidential Election data 2016.

Usage

```
USA_Election_2016
```

Format

A data.frame with 5 variables:

EnteredDateTime Time of the wager line in UTC

TeamName1 Team name of the Away Team

TeamName2 Team name of the Home Team

MoneyUS1 Moneyline US odds for Away Team

MoneyUS2 Moneyline US odds for Home Team

Details

All lines from Pinnacle for the 2016 US Presidential Election

Examples

```
if (require("odds.converter")) {
library(tidyverse)
# What is Hilary Clinton's the highest implied winning probability at Pinnacle?

USA_Election_2016[which.min(USA_Election_2016$MoneyUS1),"EnteredDateTime"]
odds.converter::odds.us2prob(min(USA_Election_2016$MoneyUS1))
}

# What time on election night that Trump's implied winning probability surpassed Clinton's?
if (require("tidyverse")) {
library(tidyverse)
USA_Election_2016 %>%
 filter(MoneyUS1>MoneyUS2) %>%
 slice(1)
}
```

Index