Package 'healthfinance'

October 24, 2020

Title Financial Projections and Planning for Health Care Practices

Version 0.1.0

Description Provides a shiny interface for a free, open-source managerial accounting-like system for health care practices. This package allows health care administrators to project revenue with monthly adjustments and procedure-specific boosts up to a 3-year period. Granular data (patient-level) to aggregated data (department- or hospital-level) can all be used as valid inputs provided historical volume and revenue data is available. For more details on managerial accounting techniques, see Brewer et al. (2015, ISBN:9780078025792).

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Encoding UTF-8

LazyData true

Depends R (>= 2.10)

Imports ggplot2 (>= 3.3), lubridate (>= 1.7), readr (>= 1.3), scales (>= 1.1), shiny (>= 1.4), tibble (>= 3.0)

RoxygenNote 7.1.1

URL https://rrrlw.github.io/healthfinance/

BugReports https://github.com/rrrlw/healthfinance/issues

Suggests testthat (>= 2.3)

NeedsCompilation no

Author Raoul Wadhwa [aut, cre], Vigneshwar Subramanian [aut], Milind Desai [aut]

Maintainer Raoul Wadhwa <raoulwadhwa@gmail.com>

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calc_rev

Calculate 3-year Revenue for Healthcare Practice

Description

Allows calculation of projected revenue for upcoming 36 months along with target revenue for corresponding months.

Usage

```
calc_rev(
   procedures,
   growth = rep(0, 3),
   comp_ratio = rep(1, 4),
   ins_prop = rep(0.25, 4),
   tech_fee_mult = 10,
   month_prop = rep(1/12, 12),
   restoration = rep(1, 36),
   boost_amt = numeric(0),
   boost_proc = list(),
   boost_start = integer(0),
   boost_end = integer(0)
)
```

Arguments

procedures	df or tibble containing 3 columns (name, annual volume, annual revenue)
growth	numeric vector of length 3; c(1, 10, 100) would represent expected growth of 1 percent in year 1, 10 percent in year 2 (compared to year 1), and 100 percent in year 3 (compared to year 2)
comp_ratio	numeric vector of length 4 containing compensation ratio (on average) of follow- ing insurances relative to Medicare: Medicare (should be 1), Medicaid, Com- mercial (private), and Other (self-pay, bad debt)
ins_prop	numeric vector of length 4 containing proportion of patients with following types of insurance: Medicare, Medicaid, Commercial (private), and Other (self-pay, bad debt); sum of this vector should equal unity
<pre>tech_fee_mult</pre>	technical fee as a multiple of procedural fee
month_prop	proportion of revenue expected in each of 12 months of the year

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restoration	proportion of expected revenue expected in each of 36 upcoming months due to acute economic event being modeled
boost_amt	boost amount for up to 8 procedure sets
boost_proc	list of boost procedures for each of 8 boosts above
boost_start	start month (between 1 and 36, inclusive) for each of 8 boosts above
boost_end	end month (between 1 and 36, inclusive) for each of 8 boosts above

Value

list with 2 numeric vectors of length 36 each

Examples

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Financial Projections and Planning for Healthcare Practices

Description

Provides a shiny interface for a free, open-source managerial accounting-like system for healthcare practices. This package allows healthcare administrators to project revenue with monthly adjustments and procedure-specific boosts up to a 3-year period. Granular data (patient-level) to aggregated data (department- or hospital-level) can all be used as valid inputs provided historical volume and revenue data is available.

hfin

Description

Opens the shiny interface for the health finance functionality provided by the healthfinance package. The interface currently consists of 3 tabs: (1) import; (2) model; and (3) export.

Usage

hfin()

Value

shiny application object

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