Package: healthfinance (via r-universe)

August 31, 2024

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).

License GPL-3

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)

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

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

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

Suggests testthat (>= 2.3)

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

RemoteUrl https://github.com/rrrlw/healthfinance

RemoteRef HEAD

RemoteSha bf99622f10fa1946808d4fb17d9fe315623c1282

Contents

`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 following insurances relative to Medicare: Medicare (should be 1), Medicaid, Commercial (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
`tech_fee_mult`	technical fee as a multiple of procedural fee
`month_prop`	proportion of revenue expected in each of 12 months of the year
`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

```
# sample dataset of procedures
eg_procs <- data.frame(Name = c("Sample 1", "Sample 2", "Sample 3"),
                       Revenue = c(100000, 200000, 150000),
                       Volume = 1000, 25, 750)

# calculate revenue projections for next 36 months with default parameters
proj <- calc_rev(eg_procs)

# print 36-month target revenues
print(proj$Target)

# print 36-month projected revenues
print(proj$Projected)
```

---

healthfinance *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 *Shiny App for Health Finance*

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

Index