Package ‘healthfinance’

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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)

RoxygenNote  7.1.1

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

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

Suggests  testthat (>= 2.3)

NeedsCompilation  no

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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

```r
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**  
umeric 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**  
umeric 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)
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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