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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Repository  CRAN

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\textbf{R topics documented:}

\begin{itemize}
  \item \texttt{calc_rev} \hspace{1cm} \texttt{healthfinance} \hspace{1cm} \texttt{hfin}
\end{itemize}

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\begin{center}
\begin{tabular}{ll}
\texttt{calc_rev} &  \textit{Calculate 3-year Revenue for Healthcare Practice} \\
\end{tabular}
\end{center}

\section*{Description}

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

\section*{Usage}

\begin{verbatim}
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)
)
\end{verbatim}

\section*{Arguments}

\begin{itemize}
  \item \texttt{procedures} \hspace{1cm} df or tibble containing 3 columns (name, annual volume, annual revenue)
  \item \texttt{growth} \hspace{1cm} 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)
  \item \texttt{comp_ratio} \hspace{1cm} 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)
  \item \texttt{ins_prop} \hspace{1cm} 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
  \item \texttt{tech_fee_mult} \hspace{1cm} technical fee as a multiple of procedural fee
  \item \texttt{month_prop} \hspace{1cm} proportion of revenue expected in each of 12 months of the year
\end{itemize}
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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