

# Package ‘FAfA’

July 21, 2025

**Title** Factor Analysis for All

**Version** 0.3

**Description** Provides a comprehensive Shiny-based graphical user interface for conducting a wide range of factor analysis procedures. 'FAfA' (Factor Analysis for All) guides users through data uploading, assumption checking (descriptives, collinearity, multivariate normality, outliers), data wrangling (variable exclusion, data splitting), factor retention analysis (e.g., Parallel Analysis, Hull method, EGA), Exploratory Factor Analysis (EFA) with various rotation and extraction methods, Confirmatory Factor Analysis (CFA) for model testing, Reliability Analysis (e.g., Cronbach's Alpha, McDonald's Omega), Measurement Invariance testing across groups, and item weighting techniques. Results are presented in user-friendly tables and plots, with options for downloading outputs.

**License** GPL-3

**Imports** EFA.MRFA, EFA.dimensions, EFAtools, EGAnet, MBESS, config, dplyr, energy, ggcorrplot, golem, lavaan, mctest, moments, mvnormalTest, pastecs, psych, psychometric, semPlot, semTools, shiny, shinycssloaders, shinydashboard, sirt, stats, magrittr, haven, readxl

**Suggests** knitr, rmarkdown, spelling, testthat (>= 3.0.0)

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Config/testthat/edition** 3

**Language** en-US

**NeedsCompilation** no

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run\_app                    *Run the Shiny Application*

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### Description

This function launches the Shiny application. It uses default options for shinyApp and golem.

### Usage

run\_app()

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