

Statistical Test Result #190 — Analysis Report

Generated 2026-09-21 02:38:18 · 1 run(s) · CAT-G Data Analyzer

1. glm (#190)

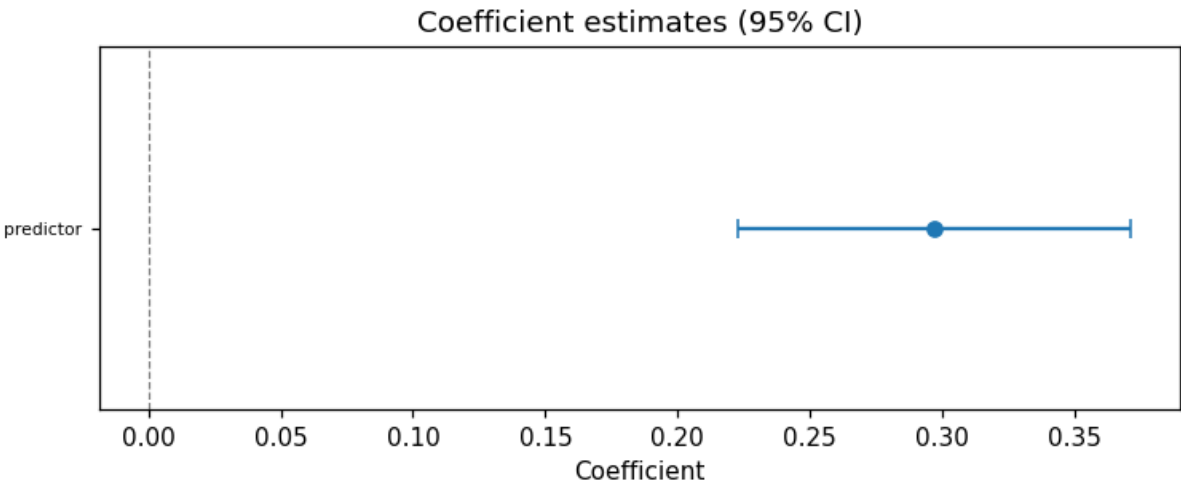
2026-09-21 02:16:53 · statistical_test · status: completed

The glm on count completed.

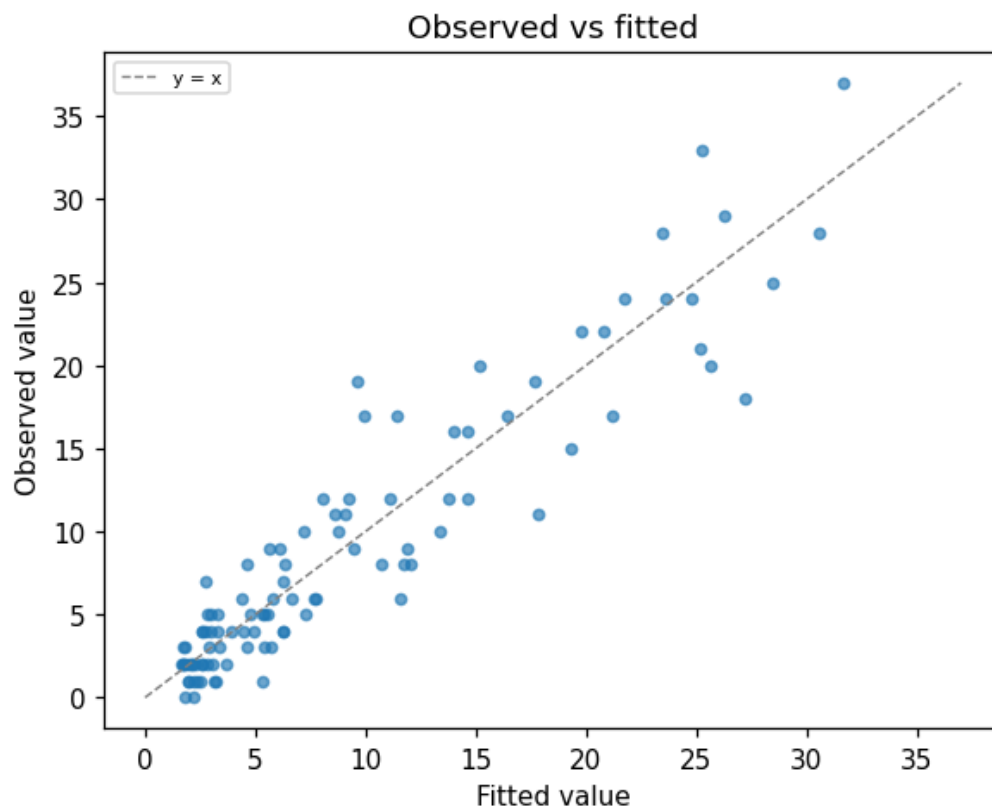
family	negative_binomial
aic	593.503467
deviance	16.882287
null_deviance	80.057553
pseudo_r2	0.789123
n_obs	100
dispersion_phi	0.13925
deviance_gof_p	1.0
method	glm
value_col	count
significant	True

coefficients

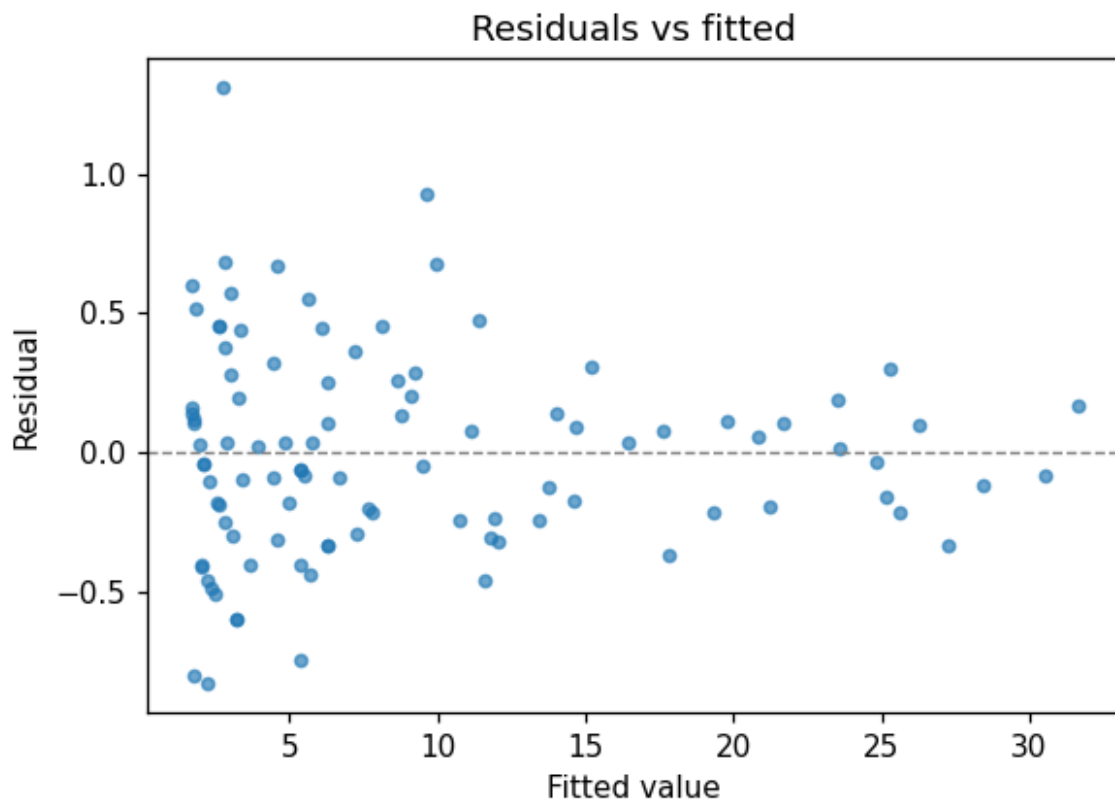
term	coef	se	z	p	ci_lower	ci_upper
const	0.495563	0.216117	2.293032	0.021846	0.071982	0.919145
predictor	0.296855	0.037917	7.828982	0.0	0.222538	0.371171



coef forest



fitted vs observed



residuals vs fitted

Method & Provenance

method	Count GLM (Poisson / Negative Binomial)
engine	Python · statsmodels 0.14.6
datasets	gallery — example_glm_counts.csv
started	2026-09-21 02:16:53.486314
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/d9e9c78bde024ef2898ba52fc898

Parameter	Value
test_type	glm
value_col	count
predictor_cols	predictor

Command history

```
# python
import statsmodels.api as sm

# python
model = sm.GLM(y_counts, X_predictors, family=sm.families.Poisson())

# python
fit = model.fit()
```