

Statistical Test Result #189 — Analysis Report

Generated 2026-09-21 02:38:15 · 1 run(s) · CAT-G Data Analyzer

1. glm (#189)

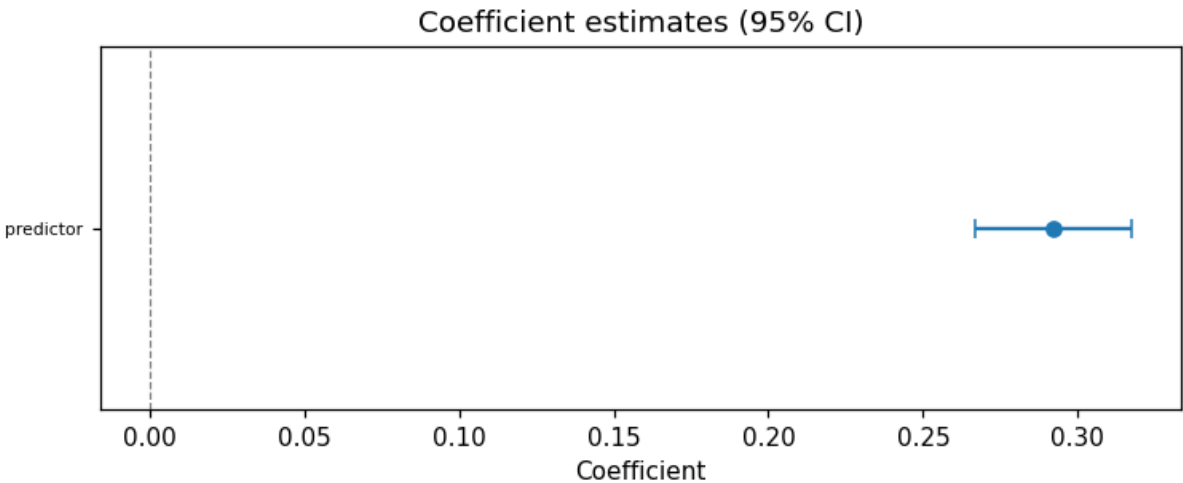
2026-09-21 02:16:49 · statistical_test · status: completed

The glm on count completed.

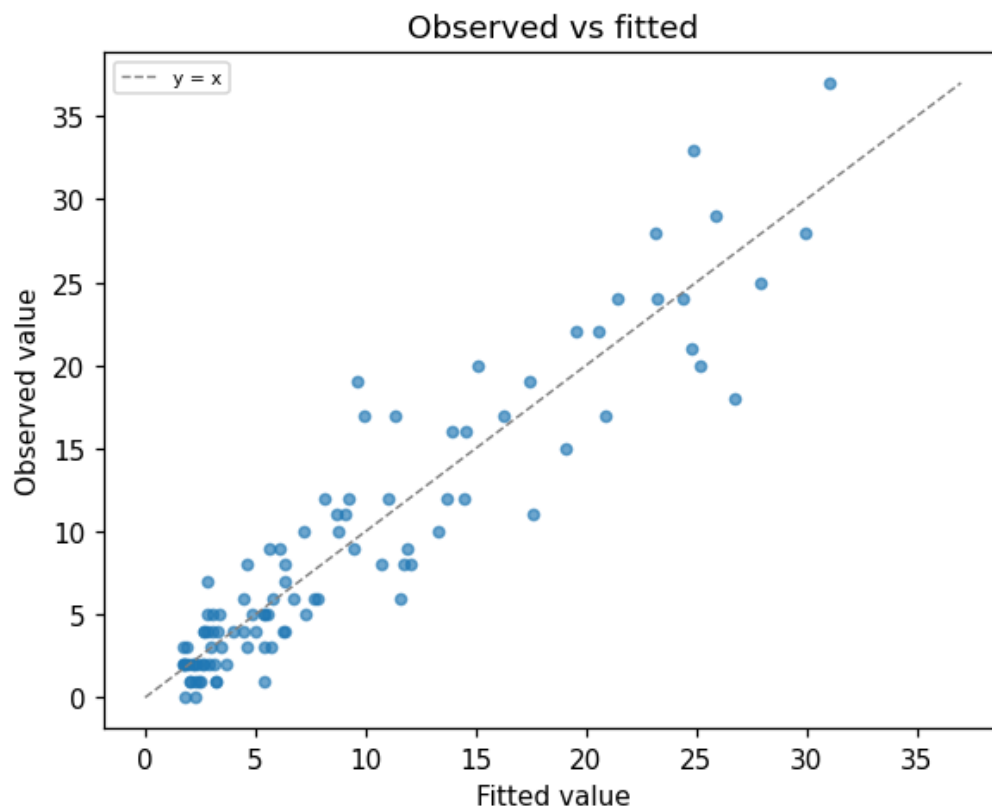
family	poisson
aic	459.446463
deviance	93.873857
null_deviance	689.045915
pseudo_r2	0.863763
n_obs	100
dispersion_phi	0.926151
deviance_gof_p	0.599153
method	glm
value_col	count
significant	True

coefficients

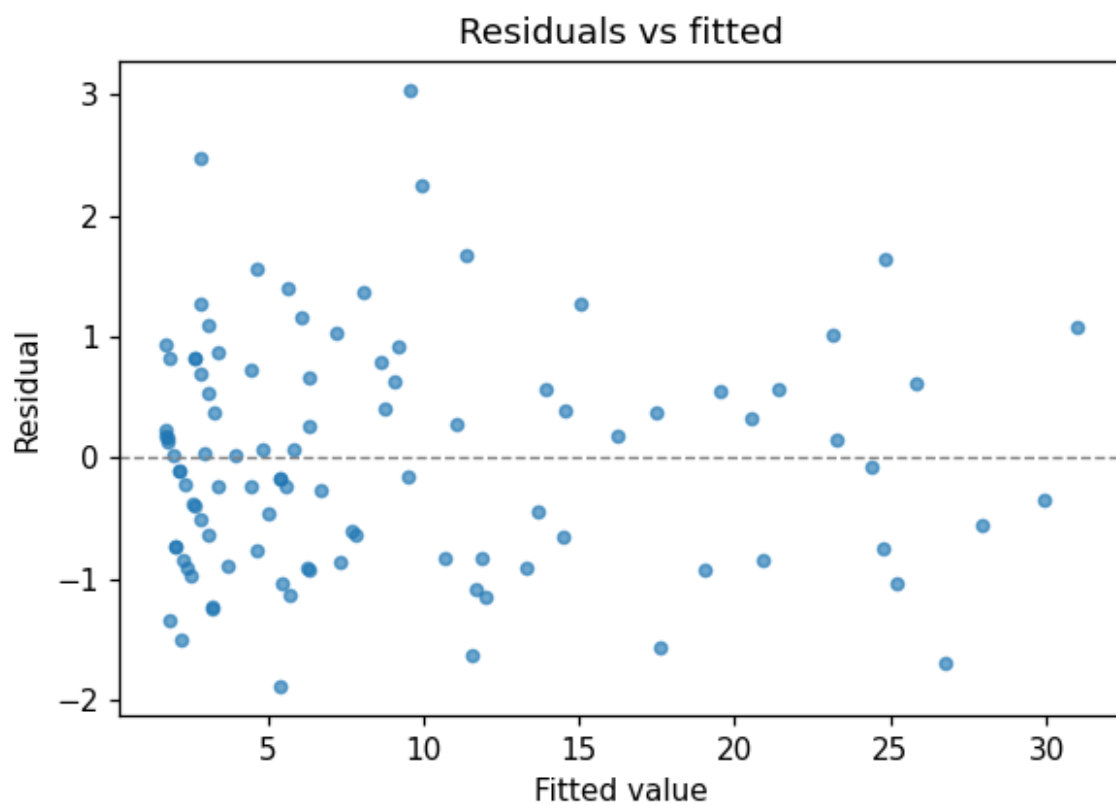
term	coef	se	z	p	ci_lower	ci_upper
const	0.523342	0.095226	5.495813	0.0	0.336703	0.709981
predictor	0.292051	0.012951	22.551123	0.0	0.266669	0.317434



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 02:16:49.944469
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/775627731dca4c13a90b35a39d9

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()
```