

# GLM ANALYSIS REPORT

**Dataset:** test\_glm

**Analysis Type:** Glm

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**Platform:** ADaaS (Actuarial Data Analysis as a Service)

## EXECUTIVE SUMMARY

Completed glm analysis on dataset test\_glm. Results show statistical patterns consistent with the data characteristics.

## KEY INSIGHTS

- Glm analysis completed successfully
- Statistical models fitted to the data
- Results available for business decision-making
- GLM coefficients indicate feature relationships

## MODEL PERFORMANCE

Model metrics are within acceptable ranges for this analysis type.

## DETAILED RESULTS

### *Model Specification*

**Model Family:** Poisson

**Link Function:** log

**Number of Observations:** N/A

**Number of Features:** 2

### *Goodness of Fit Metrics*

**AIC (Akaike Information Criterion):** 1,234.56

**BIC (Bayesian Information Criterion):** 1,250.78

**Deviance:** 1,200.00

**Pearson Chi-Square:** 1,180.50

**Degrees of Freedom:** N/A

### ***Model Coefficients (Top 20)***

Regression coefficients with standard errors, z-values, and p-values.

**age:**  $\beta=0.0500$ ,  $SE=N/A$ ,  $z=N/A$ ,  $p=0.0010$

**gender:**  $\beta=-0.1500$ ,  $SE=N/A$ ,  $z=N/A$ ,  $p=0.0500$

## **BUSINESS IMPLICATIONS**

- Review detailed results for specific insights
- Consider validation with domain experts
- Use findings to inform strategic decisions

## **LIMITATIONS AND CAVEATS**

- Analysis based on available data only
- Standard statistical assumptions apply
- Results should be validated with additional data sources