# Logistic Regression Analysis of Gender and Predictors

This report presents the results of the logistic regression analysis for the gender binary outcome.

| Predictor | Odds\_Ratio | CI\_Lower | CI\_Upper | P\_value |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.56817742591875 | 1.06513777276356 | 2.33193612250373 | 0.024 |
| residential\_statusOn Campus | 1.21297276518573 | 0.791445246035884 | 1.84643354228797 | 0.371 |
| residential\_statusWith Family | 0.563530488458506 | 0.341192823424693 | 0.926250379703244 | 0.024 |
| studying\_year2nd Year | 1.73797050895075 | 1.0657038962094 | 2.89049392394424 | 0.029 |
| studying\_year3rd Year | 2.23716066767358 | 1.38354697676727 | 3.70163914171324 | 0.001 |
| studying\_year4th Year | 1.35201406117768 | 0.701734805991707 | 2.70483018755635 | 0.378 |
| studying\_yearGraduate Student | 1.70911397569729 | 0.9859745638244 | 3.05227039917731 | 0.062 |

## Interpretation and Conclusion

The following section presents the interpretation of the results and their implications.

Significant predictors include residential status and studying year, indicating that these variables are crucial for understanding gender outcomes in this context. Non-significant predictors may be due to limited variability or other underlying factors that were not captured in the model.

Limitations of the analysis include potential unmeasured confounders and sample size constraints. Further studies with larger sample sizes and additional control variables may help refine the findings.

The findings of this analysis contribute to understanding the factors influencing gender differences in mental health outcomes, specifically in the context of socio-economic and academic pressures.