

Project review

- **Team:** 4_CPS
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1. Problem formulation 4/4:

Problem is clearly stated (investigation of the correlation between two types of crimes). Data and its preprocessing is deeply described.

2. Model 3/4

There are two different models (normal distribution and linear). Parameters, data and formulas were described but the difference in the models was slightly justified.

3. Priors 3/4

Explained why prior was selected. Priors predictive checks have been done for measurements and parameters but data from priors differs from original in many places. Priors were selected by authors' beliefs.

4. posterior analysis model 1&2 8/8

No issues with sampling. Samples from posterior predictive distribution and parameter marginal distributions have been analyzed. the data consistent with posterior predictive samples. Histograms of parameters have been created

5. Model comparison 4/4

Results have been consulted both for WAIC and LOO. Model comparison has been discussed by the authors. Authors admit that linear model fit data better. Authors also agree with the information criteria and assume that the model which will map the data better is the model using the spline

SUM: 22/24