AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Data Analytics
Project Grading Checklist

Review for:
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Checklist

1. Problem formulation [0-4 pts]:

Criterions	Point
is the problem clearly stated [1 pt] Comments: Yes. Will Golden State Warriors win the championship?	1
what is the point of creating model, are potential use cases defined [1 pt] Comments: Yes, the point is to check possibility of winning the championship by GSW	1
where do data comes from, what does it contain [1 pt] Comments: There is one dataset and it contains career stats of Steph Curry	1
is preprocessing step clearly described [1 pt] Comments: Yes, but there is lack of description	0,5

2. Model [0-4 pts]

Criterions	Point
are two different models specified [1 pt] Comments: Yes, all parameters are described for both models	1
are difference between two models explained [1 pt] Comments: Yes, there is a clearly explanation about two models	1
is the difference in the models justified (e.g. does adding additional parameters make sense?) [1 pt] Comments: Yes, clearly	1
are models sufficiently described (what are formulas, what are parameters, what data are required) [1 pt] Comments: Yes, the models were sufficiently described.	1

3. Priors [0-4 pts]

Criterions	Point
Is it explained why particular priors for parameters were selected [1 pt] Comments: Yes	1
Have prior predictive checks been done for parameters (are parameters simulated from priors make sense) [1 pt] Comments: Yes, 550 out of 1000 games have been won by Steph Curry, and It is 55%	1
Have prior predictive checks been done for measurements (are measurements simulated from priors make sense) [1 pt] Comments: Yes	1
How prior parameters were selected [1 pt] Comments: Based on previous career	1

4. Posterior analysis (model 1) [0-4 pts]

Criterions	Point
Were there any issues with the sampling? if there were what kind of ideas for mitigation were used [1 pt] Comments: No problem with sampling	1
are the samples from posterior predictive distribution analyzed [1 pt] Comments: Yes, histogram shows all the data	1
are the data consistent with posterior predictive samples and is it sufficiently commented (if they are not then is the justification provided) Comments: Both, commented and also consistent	1
have parameter marginal distributions been analyzed (histograms of individual parameters plus summaries, are they diffuse or concentrated, what can we say about values) [1 pt] Comments: Yes, histograms were provided and analyzed. Mean value of y on 0.69 Lack of comparison	0,5

5. Posterior analysis (model 2) [0-4 pts]

Criterions	Point
Were there any issues with the sampling? if there were what kind of ideas for mitigation were used [1 pt] Comments: No issues with sampling	1
are the samples from posterior predictive distribution analyzed [1 pt] Comments: Yes they are shown in histograms, and there is also descriptive analysis	1
are the data consistent with posterior predictive samples and is it sufficiently commented (if they are not then is the justification provided) Comments: Consistent and also sufficiently commented	1
have parameter marginal distributions been analyzed (histograms of individual parameters plus summaries, are they diffuse or concentrated, what can we say about values) [1 pt] Comments: Yes, there are histograms and also about values " (theta) shifted to the right has the mean value of 0.65" "Mean value of y is 0.8 therefore, we can say that the chance of Stephen Curry winning this championship is 80%" Lack of description of all histograms.	0,5

6. Model comparison [0-4 pts]

Criterions	Point
Have models been compared using information criteria [1 pt] Comments: Yes	1
Have result for WAIC been discussed (is there a clear winner, or is there an overlap, were there any warnings) [1 pt] Comments: No overlap, no warnings. There is clear winner as model 2	1
Have result for PSIS-LOO been discussed (is there a clear winner, or is there an overlap, were there any warnings) [1 pt] Comments: No overlap, no warnings. There is clear winner as model 2	1
Whas the model comparison discussed? Do authors agree with information criteria? Why in your opinion one model better than another [1 pt] Comments: Yes, For me the second model is better, because two additional parameters allows us to increase possibilities of winning the championship by Steph Curry.	1

Final Grade

Sections	Points
Section 1	3,5
Section 2	4
Section 3	4
Section 4	3,5
Section 5	3,5
Section 6	4
Total	22,5