

## Final lab GSI grade

Name \*

Todd Faulkenberry

Student ID \*

3033134639

Readability \*

	1	2	3	4	5	
Narrative unclear and/or difficult to read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Narrative very clear and/or easy to read

Grammar \*

	1	2	3	4	5	
Incorrect written grammar pervasive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Excellent written grammar

Comments on readability and grammar

I appreciate your honesty about running out of time, but you were too negative on yourself throughout the report. It was good to bring up what you would have done with more time, but your correlations and RMSE really were not much different than other people.

### Quality of exploratory data analysis \*

	0	1	2	3	
Did not perform EDA	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Performed a thorough EDA and presented appropriate and appealing figures that highlighted the interesting parts of the data

### Comments on EDA

I like that you discuss some of the EDA you did, but it would have been good to include some of the figures in the report

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### Appropriateness of regression methods \*

	0	1	2	3	
Did not appropriately choose or implement regression methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Made sensible decisions in terms of choosing and implementing regression methods

Comments on regression methods (e.g. did the student try to fit the same model for each voxel or different models for each voxel - this makes more sense)

Looks good

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## Explained each of the model selection criteria (CV, ESCV, AIC, AICc, BIC) \*

	0	1	2	3	
Did not explain the model selection criteria	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Clearly outlines what each model selection criteria does and the relative pros and cons of each criteria

## Correctly implemented and compared model selection criteria (including using the correct correlation criteria rather than MSE) \*

	0	1	2	3	
Did not compare model selection criteria	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Correctly implemented the criteria, discussed strengths and weaknesses, and provided insightful figures for the comparison

## Comments on implementation and comparison of modeling and model selection criteria

Other than comparing the caret default to CV you don't do much here.

I am not sure what the default model selection criteria in caret is, but it seems to be that is prefers to pick very small models across most of the voxels.

## Evaluation of model performance and diagnostic plots \*

	0	1	2	3	4	
Did not evaluate model performance	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Thoroughly evaluated how well the models performed using correlation (including testing final model on a test set) and provided insightful and appealing figures for diagnostic plots and model interpretation

## Comments on model performance evaluation and diagnostic plots

BTW your correlation values really are not that far off from what most people got in the report. The highest for most people was around 0.58 at voxel 9.

I believe the reason that you get some voxels that have NA for correlation is that the model selected only includes the intercept. Therefore it is predicting the same value for all the images and thus correlation cannot be computed.

You need to hold out a separate test set (in addition to the one you did in the report) to get a sense of how your final model selection would perform on new data (the val\_feat data cannot be used as a test set as you don't have the actual response)

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## Interpretation of models \*

	0	1	2	3	
Did not try to interpret the models	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Provided a thorough interpretation of the models

## Comments on model interpretation

It would have been good to do some more here like maybe going back to the Gabor wavelets themselves and seeing if voxel 1 and 9 were responding to different directions.

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## Evaluation of model stability \*

	0	1	2	3	
Did not discuss model stability	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Reasonably explored and discussed model stability

## Comments on model stability evaluation

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Did the student provide all files and instructions in their github repo necessary for reproducing the results and report \*

	0	1	2	3	
Did not provide anything required for reproducibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Everything was provided and clearly named/described

## General comments

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