

Final lab GSI grade

Name *

Mengling Liu

Student ID *

3033122406

Readability *

	1	2	3	4	5	
Narrative unclear and/or difficult to read	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent written grammar

Comments on readability and grammar

Throughout the report there is a need for more context. For example at the beginning as opposed to just diving straight in to talk about the data you need to give background about the problem you are trying to solve with the data.

Additionally, there are a number of typos and grammatical mistakes

Quality of exploratory data analysis *

	0	1	2	3	
Did not perform EDA	<input checked="" type="radio"/>	<input 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

Appropriateness of regression methods *

	0	1	2	3	
Did not appropriately choose or implement regression methods	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input 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)

Your choice of methods is appropriate but more discussion about why they are appropriate for this context is warranted.

In addition you do not address how you will handle the 20 voxels. Will you do a separate model for each?

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

	0	1	2	3	
Did not explain the model selection criteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" 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

Good discussion of the pros and cons

It is more appropriate with this data to use correlation instead of MSE for the CV as discussed in the paper

You did not seem to do any comparison of the model sizes (i.e. lambdas chosen for the different criteria)

Evaluation of model performance and diagnostic plots *

	0	1	2	3	4	
Did not evaluate model performance	<input type="radio"/>	<input checked="" type="radio"/>	<input 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

You need to do more than just print out a table for the validation. It must be discussed in the body of the report.

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

You don't really seem to attempt to interpret the models beyond seeing if models share features and if features are stable across bootstrap samples. It would have been great to discuss how this relates to how voxels respond to images.

Evaluation of model stability *

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

Comments on model stability evaluation

Good job in this part

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

This form was created inside of UC Berkeley.

Google Forms