CSE 450 – Case Study Performance Evaluation

Treat the six questions in this evaluation like a professional document you would send to an executive team during a post-mortem. Write in complete sentences, using correct grammar and spelling.

\* Please note that the following are not sufficient reasons to justify a score of “above and beyond”:

I / we had to look some stuff up on the internet…

I / we had to read technical documentation…

I / we used a custom color scheme or different chart type in a required visualization…

I / we spent a lot of time figuring out how to complete a requirement…

1. What are some key ideas you learned during this case study related to machine learning and data analysis?

The main ideas that are with a neural net, the data needs to be tested with many different models to see if which model generates the best results. Neural nets are also very difficult to understand why it makes the decisions that it makes. The goal for the neural net is also to reach a global minimum which would be the target variable.

2. If you had additional time to work on this case study, what would you do to take things further?

Making an additional neural net that runs within the main one that is specifically trained on holiday data to increase the accuracy for the predictions.

**3. Aside from having to learn a new and/or difficult concept, what do you think was the biggest obstacle your team faced during this case study?\**

The biggest obstacle that our team faced was getting our models to be tested against the holdout dataset. We also faced numerous errors that seemed to be affect our models from running correctly or even at all.

4. What insights did you gather about learning in general from this module? Could these insights apply to spiritual learning? If so, how?

The biggest thing that I realized in creating this model is that it is necessary to always keep learning and discovering new things. Without learning about the different types of models and experimenting with them we would have never been able to achieve the R2 and MSE scores that we achieved.

For the following questions, use this scale:

5. All requirements were met and additional work was done to demonstrate creativity and excellence by going above and beyond\*.

4. All requirements were met.

3. Some attempt was made, but was slightly deficient in approach or understanding.

2. Some attempt was made, but was significantly deficient in approach or understanding.

1. Some attempt was made, but was extremely deficient in approach or understanding.

0. No attempt was made.

5. According to the evaluation scale, how would you rate your team’s overall performance on this module? Explain why you feel the team deserves that rating. (5-above and beyond , 0-no attempt)

Our team put a lot of work into developing multiple models, sharing what we learned and then reaching the model that we ultimately ending up using. For this I believe that we earned a 5 on the model and performance of this module.

6. For each member of your team, (including yourself), rate that team member’s performance on this module, and provide a suggestion for how they can improve moving forward (don’t forget to make a suggestion for your own improvement).

These ratings and suggestions will be anonymously shared with the corresponding teammate, so practice professional candor. You may find [this guide on “radical candor”](https://firstround.com/review/radical-candor-the-surprising-secret-to-being-a-good-boss/) to be helpful.

**Example:**

Bob: 3 – Slightly Deficient. Bob, if I could give you one piece of advice going forward, it would be to make our status meetings a priority. You have amazing contributions when you’re present and engaged, so when you miss a meeting without letting us know ahead of time, it really hurts the team.

**Notice that the evaluation addresses Bob directly, not the teacher. This isn't a tattle-tale session, it's an anonymous feedback exercise.**

Nathan: 5 – You did an amazing job creating your own model and researching ways to make the model better. We Would not have done as good on our model if it wasn’t for your improvements.

TJ: 5 – You did a really good job on getting a model working right off away and further improving that model. The only thing that could have helped our team would have been being able to stay through us finishing our presentation, you usually have good insight on improvements that could have been made to our executive summary.

Austin: 5 – Did a great job trying to get a model working despite your issues with testing it against the holdout data. You also worked well on the executive summary and that helped us a lot.

Soren: 4– I did not understand neural net models as well as I should have. I also should have done a better job reviewing our executive summary before submitting it.