02 Applications - Supervised Machine Learning Readiness



Machine Learning Model Handbook

Name(s):

| Part 2: Data HandlingExercise 2bDescribe your exploratory data analysis of any target and input features of note. Include the following:* How many rain and snow records are in the dataset?
* Do the distributions of values make sense for the physical world?
* Are there any unexpected values?
* Which input features may be the strongest predictors of rain vs snow?
* Include any important plots to illustrate your conclusions. Limit yourself to 5 plots.
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| Part 3: Model DevelopmentExercise 3ePaste your evaluation metrics below. |
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| Then describe the results of the original model validation. Include the following:* How well does the model predict rain? Support your description with the evaluation metrics.
* How well does the model predict snow? Support your description with the evaluation metrics.
* How do you interpret these statistics in the context of the physical world?
* What changes will you make to try to improve these statistics in the next iteration?
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| Exercise 3fPaste the full output of each of your validation trials, one per box. You may complete as many trials as you like until you are satisfied with the evaluation metrics, or they no longer improve with new trials. *If you need to add new boxes, right click the bottom-right box and select* ***Insert row below*** |
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| Exercise 3hPaste your testing evaluation metrics below. |
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| Then make a final decision on whether this model delivers on the results needed with supporting justification. Include the following:* Which precipitation class(es) had the best evaluation metrics? List some physical scientific reasons why this may be the case.
* Is this model ready for use in the real world? Why or Why not?
* What other possible changes could further improve this model?
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