Assignment No. 4 Rubric

EECS 658

Introduction to Machine Learning

Due: 11:59 PM, Tuesday, October 16, 2022

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# Point Breakdown

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| --- | --- | --- |
| ***Graded Value*** | ***Points Possible*** | ***Criteria*** |
|  | 3 | Name of the zip file: FirstnameLastname\_Assignment4 |
|  | 3 | Name of the Assignment folder within the zip file: FirstnameLastname\_Assignment4 |
|  | 3 | Copy of Rubric 4.docx with your name and ID filled out |
|  | 4 | Python source code for CompareFeatureSelectionMethods |
|  | 5 | Screen print showing the successful execution of CompareFeatureSelectionMethods |
|  | 6 | For each Part, the confusion matrix matches the accuracy metric. |
|  | 6 | The values in the 4 confusion matrices each add up to 150 |
|  | 6 | The final features are listed for each Part. |
|  | 6 | For Part 3, the subset of features, accuracy, Pr[accept], Random Uniform, and Status are printed out for 100 iterations. |
|  | 6 | For Part 3, the Status (i.e., Improved, Accepted, Discarded, or Restart) are correct for each iteration |
|  | 6 | For Part 4, the 5 best sets of features and their accuracy are printed out for 50 generations. |
|  | 6 | For Part 4, the 5 best sets of features for the first generation are not the same as those for the last generation. |
|  | 5 | Deliverable 4 is correct, i.e., it shows using the PoV formula and the values from the eigenvalue matrix that the program calculated the PoV correctly. |
|  | 5 | The answer to 5a is correct based on the accuracy metric for each of the Parts. |
|  | 5 | Answer to 5b is correct for 2nd best dimensionality reduction method |
|  | 5 | Answer to 5b is correct for 3rd best dimensionality reduction method |
|  | 5 | Answer to 5c is correct based on the results of Parts 1, 2, 3, and 4. |
|  | 5 | Answer to 5d is correct based on the results of Parts 2 and 3. |
|  | 5 | Answer to 5e is correct based on the results of Parts 2 and 4. |
|  | 5 | Answer to 5f is correct based on the results of Parts 3 and 4. |
|  | **100 pts** |  |

# Grader Comments