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| **Student:** | Ashwin Rathore |
| **Student ID:** | 3026425 |
| **Assignment Due Date:** | 11:59 PM, Friday, November 13, 2020 |

# Point Breakdown

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| ***Graded Value*** | ***Points Possible*** | ***Criteria*** |
|  | 3 | Name of the zip file: FirstnameLastname\_Assignment6 |
|  | 3 | Name of the Assignment folder within the zip file: FirstnameLastname\_Assignment6 |
|  | 3 | Copy of Rubric 6.docx with your name and ID filled out |
|  | 5 | Python source code. |
|  | 5 | Screen print showing the successful execution of your Python source code. |
|  | 4 | Labels are printed between the outputs so it is clear what is being displayed. |
|  | 4 | Part 1: First loop determines new n\_init correctly |
|  | 5 | Part 1: Reconstruction error vs. k is plotted correctly |
|  | 4 | Part 1: elbow\_k determined correctly |
|  | 4 | Part 1: Confusion matrix & accuracy correct for predict() with k = elbow\_k |
|  | 4 | Part 1: Confusion matrix & accuracy correct for predict() with k = 3 |
|  | 5 | Total for each of the two confusion matrices for Part 1 is 150. |
|  | 4 | Part 1: Question 1 answered correctly |
|  | 4 | Part 2: First loop determines new n\_init correctly |
|  | 5 | Part 2: AIC vs. k is plotted correctly |
|  | 4 | Part 2: aic\_elbow\_k determined correctly |
|  | 5 | Part 2: BIC vs. k is plotted correctly |
|  | 4 | Part 2: bic\_elbow\_k determined correctly |
|  | 4 | Part 2: Confusion matrix & accuracy correct for predict() with k = aic\_elbow\_k |
|  | 4 | Part 2: Confusion matrix & accuracy correct for predict() with k = bic\_elbow\_k |
|  | 4 | Part 2: Confusion matrix & accuracy correct for predict() with k = 3 |
|  | 5 | Total for each of the three confusion matrices for Part 2 is 150. |
|  | 4 | Correct answer to Part 2, Question 2a. |
|  | 4 | Correct answer to Part 2, Question 2b. |
|  | **100 pts** |  |

# Comments