validation score: 73.72742200328408

test score: 75.04258943781942

train score: 82.13185459026494

Classification Report:

precision recall f1-score support

1 0.98 1.00 0.99 48

2 0.94 1.00 0.97 45

3 1.00 1.00 1.00 28

4 0.85 0.98 0.91 47

5 0.87 1.00 0.93 46

1013 0.69 0.95 0.80 44

1014 0.85 0.61 0.71 46

1026 0.70 0.85 0.77 47

1112 0.75 0.94 0.83 48

1113 0.76 1.00 0.87 39

1116 0.52 0.81 0.63 32

1120 0.72 0.69 0.71 42

1128 0.61 0.86 0.71 35

1140 0.90 0.95 0.93 40

1149 0.76 0.89 0.82 36

1210 0.47 0.73 0.57 45

1211 0.90 0.90 0.90 40

1216 0.38 0.50 0.43 20

1219 1.00 1.00 1.00 14

1226 0.80 0.80 0.80 10

1304 0.44 0.67 0.53 18

1309 0.62 0.60 0.61 25

1311 0.50 0.61 0.55 18

1315 0.71 0.85 0.77 20

1317 0.50 0.72 0.59 18

1321 0.93 0.54 0.68 26

1324 0.83 0.24 0.37 21

1399 0.56 0.82 0.67 22

1414 0.65 0.81 0.72 16

1419 0.85 0.68 0.76 25

1422 0.63 0.63 0.63 19

1432 0.55 0.71 0.62 17

1442 0.79 0.83 0.81 18

1450 0.54 0.65 0.59 20

1516 0.70 0.78 0.74 27

2005 0.57 0.62 0.59 13

2006 0.89 0.40 0.55 20

2007 0.95 0.72 0.82 25

2025 0.70 0.41 0.52 17

2329 0.83 0.83 0.83 23

2369 0.41 0.55 0.47 20

2377 0.88 1.00 0.94 23

2603 0.59 0.57 0.58 23

2607 0.50 1.00 0.67 12

2608 0.47 0.44 0.45 16

2615 0.93 0.48 0.63 27

2618 0.76 0.68 0.72 19

2620 0.60 0.71 0.65 17

2622 0.92 0.44 0.59 25

2653 0.86 0.30 0.44 20

2656 0.63 0.52 0.57 23

2702 0.82 0.53 0.64 17

2704 0.65 0.76 0.70 17

2706 1.00 0.54 0.70 28

2708 0.60 0.39 0.47 23

2709 0.61 0.74 0.67 19

2710 0.74 0.77 0.76 22

2711 1.00 0.76 0.86 29

2712 1.00 1.00 1.00 19

2718 0.84 0.84 0.84 25

2719 0.76 0.57 0.65 23

2722 0.42 0.40 0.41 20

2725 0.87 0.68 0.76 19

2726 0.91 0.42 0.57 24

2727 0.69 0.64 0.67 14

2729 0.76 0.46 0.58 28

2731 0.63 0.55 0.59 22

2734 0.39 0.47 0.42 15

2735 0.58 1.00 0.73 15

2736 0.93 0.52 0.67 27

2737 0.83 0.83 0.83 23

2739 0.53 0.35 0.42 23

2740 0.83 0.40 0.54 25

2750 0.67 0.50 0.57 24

2751 0.75 0.60 0.67 25

2764 1.00 0.74 0.85 23

3011 0.96 0.96 0.96 25

3464 0.78 0.82 0.80 17

3465 0.95 0.86 0.90 21

3803 1.00 0.93 0.97 15

3819 0.78 0.72 0.75 25

3830 0.91 1.00 0.95 21

4020 0.74 0.82 0.78 17

4023 1.00 0.73 0.85 30

4678 0.77 1.00 0.87 17

4954 1.00 0.86 0.92 14

4955 0.88 0.68 0.77 22

4960 0.80 0.92 0.86 13

4962 0.52 0.85 0.65 13

4971 1.00 1.00 1.00 14

4974 1.00 1.00 1.00 18

5008 0.80 0.84 0.82 19

5009 0.96 0.96 0.96 26

5010 0.95 0.95 0.95 20

5012 0.94 0.83 0.88 18

5901 0.79 0.95 0.86 20

5910 1.00 0.92 0.96 12

5986 0.94 0.88 0.91 17

accuracy 0.75 2348

macro avg 0.77 0.74 0.73 2348

weighted avg 0.78 0.75 0.75 2348

Cross-Validation Scores: [0.78735632 0.79233227 0.78913738 0.77571885 0.82172524]

Average Accuracy: 0.7932540119716499

OOB Score: 0.7492298213185459

Multiclass AUC Score: 0.9859356760932418

Misclassified Samples:

cast cutoff tier actual\_college\_code predicted\_college\_code

4495 0 178.0 2 1216 1304

5299 5 156.0 2 2369 2739

1140 6 173.5 2 1450 2709

541 7 133.5 2 1210 1311

572 6 125.5 2 1211 1013

5832 7 176.0 2 2709 2025

6390 7 155.5 2 2739 1120

5254 3 164.0 2 2329 1149

4086 0 181.5 2 1013 2603

1748 0 184.0 2 2702 1113

Top Mispredicted Targets:

predicted\_college\_code

1210 37

1116 24

1013 19

1128 19

1026 17

Name: count, dtype: int64

5299 5 156.0 2 2369 2739

1140 6 173.5 2 1450 2709

541 7 133.5 2 1210 1311

572 6 125.5 2 1211 1013

5832 7 176.0 2 2709 2025

6390 7 155.5 2 2739 1120

5254 3 164.0 2 2329 1149

4086 0 181.5 2 1013 2603

1748 0 184.0 2 2702 1113

Top Mispredicted Targets:

predicted\_college\_code

1210 37

1116 24

1013 19

5299 5 156.0 2 2369 2739

1140 6 173.5 2 1450 2709

5299 5 156.0 2 2369 2739

5299 5 156.0 2 2369 2739

1140 6 173.5 2 1450 2709

541 7 133.5 2 1210 1311

572 6 125.5 2 1211 1013

5832 7 176.0 2 2709 2025

6390 7 155.5 2 2739 1120

5254 3 164.0 2 2329 1149

4086 0 181.5 2 1013 2603

1748 0 184.0 2 2702 1113

Top Mispredicted Targets:

predicted\_college\_code

1210 37

1116 24

1013 19

1128 19

1026 17

Name: count, dtype: int64

Correct Predictions: 1762

