

C:\Python27\python.exe C:/Users/Argoz/Documents/PycharmProjects/ClassifTweets/
r_oversampling.py

Generate samples using scikit-learn

Random over-sampling

Determining classes statistics... 3 classes detected: {1.0: 208, 2.0: 810, 3.0: 377}

Over-sampling performed: Counter({2.0: 810, 3.0: 754, 1.0: 416})

RBK Kernel General Accuracy Score: 0.614942528736

	precision	recall	f1-score	support
class 1	0.00	0.00	0.00	57
class 2	0.65	0.77	0.70	200
class 3	0.54	0.67	0.60	91
avg / total	0.52	0.61	0.56	348

C:\Python27\lib\site-packages\sklearn\metrics\classification.py:958:

UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples.

'precision', 'predicted', average, warn_for)

Poly-2 Kernel General Accuracy Score: 0.614942528736

	precision	recall	f1-score	support
class 1	0.00	0.00	0.00	57
class 2	0.65	0.77	0.70	200
class 3	0.54	0.67	0.60	91
avg / total	0.52	0.61	0.56	348

AdaBoost General Accuracy Score: 0.66091954023

	precision	recall	f1-score	support
class 1	0.89	0.30	0.45	57
class 2	0.70	0.76	0.73	200
class 3	0.54	0.67	0.60	91
avg / total	0.69	0.66	0.65	348

Gradient Boosting Class General Accuracy Score: 0.658045977011

	precision	recall	f1-score	support
class 1	0.86	0.33	0.48	57
class 2	0.71	0.74	0.73	200

<i>class 3</i>	<i>0.53</i>	<i>0.68</i>	<i>0.59</i>	<i>91</i>
<i>avg / total</i>	<i>0.69</i>	<i>0.66</i>	<i>0.65</i>	<i>348</i>

Random over-sampling

Determining classes statistics... 2 classes detected: {0.0: 1018, 1.0: 377}

Over-sampling performed: Counter({0.0: 1018, 1.0: 754})

One vs Rest RBF Kernel General Accuracy Score: 0.764367816092

	<i>precision</i>	<i>recall</i>	<i>f1-score</i>	<i>support</i>
<i>0.0</i>	<i>0.87</i>	<i>0.80</i>	<i>0.83</i>	<i>257</i>
<i>1.0</i>	<i>0.54</i>	<i>0.67</i>	<i>0.60</i>	<i>91</i>
<i>avg / total</i>	<i>0.79</i>	<i>0.76</i>	<i>0.77</i>	<i>348</i>

NuSVC RBF General Accuracy Score: 0.617816091954

	<i>precision</i>	<i>recall</i>	<i>f1-score</i>	<i>support</i>
<i>0.0</i>	<i>0.79</i>	<i>0.65</i>	<i>0.72</i>	<i>257</i>
<i>1.0</i>	<i>0.35</i>	<i>0.52</i>	<i>0.41</i>	<i>91</i>
<i>avg / total</i>	<i>0.68</i>	<i>0.62</i>	<i>0.64</i>	<i>348</i>

Process finished with exit code 0