#### Abnormal Vessels in AIS system Pulai mmsi Pantai Timur Plentong Pontian Lebam 566218000 Jeram Batu **•** 566241000 Johor Baharu Rimba Terjun **566287000** Yishun Pulau Ubin Sungei Kadut Pengerang **•** 566377096 Choa Chu Kang Ang Mo Kio **566382000 Bukit Batok** Sideng Island Singapore **•** 566390000 Bedok Singapore Strait **566392000** Jurong Island Bekit Morah **566496000** Southern **•** 566514000 0 **•** 566538000 Batu Ampar **o** 566543000

Sekupang

mmsi	х	у	sog	cog	TrueNormal	TruePowerOutage	TrueAbnormal	normal	powerOutage	abnormal
566218000	1.22	103.71	0.00	340.00	0	1	0	0	1	0
566218000	1.22	103.71	0.00	150.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	18.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	333.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	67.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	141.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	325.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	126.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	113.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	348.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	47.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	291.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	41.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	131.00	0	1	0	0	1	0
566218000	1.22	103.72	0.00	142.00	0	1	0	0	1	0

Singapore Strait

Microsoft Bing

## Training Testing Data

<b>Training Data</b>	<b>Testing Data</b> ▲
11205	7471

### Class Type

Abnormal -	Normal	Power Outage	
253	204	18219	

# Class Type in Training Data

Type	Abnormal	Normal	Power Outage
SMOTE	10924	10924	10924
Without SMOTE	146	135	10924

### Performance

566544000

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Accuracy	F1-score	Precision	Recall	
99.94	100	100	100	

