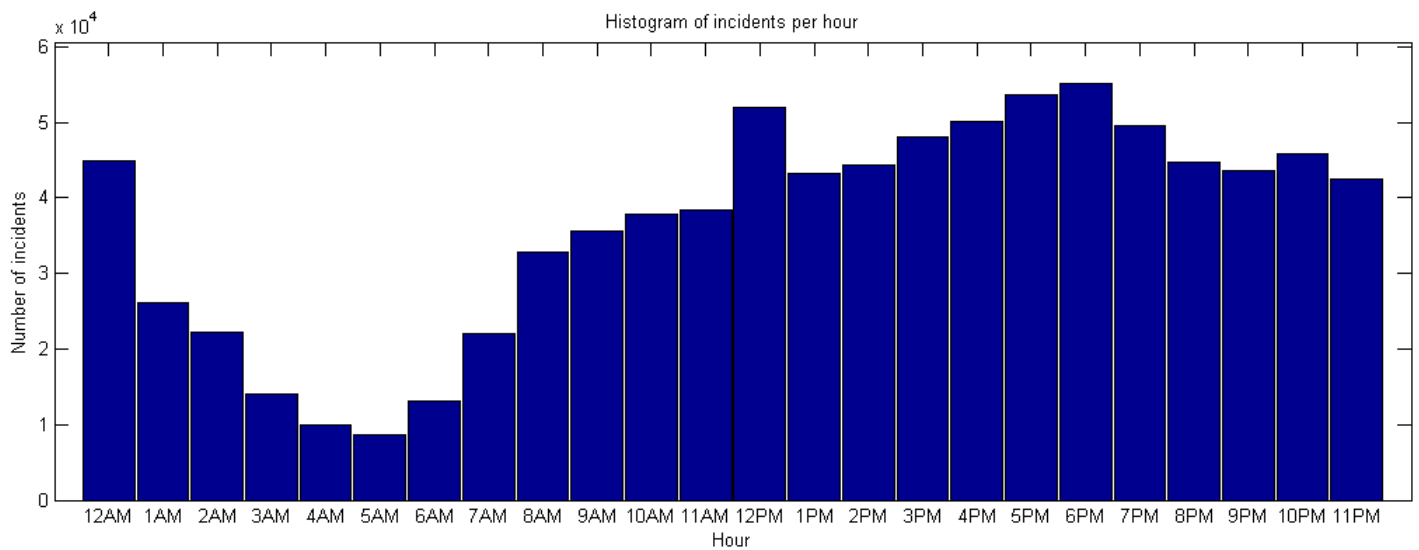

Matlab - 2

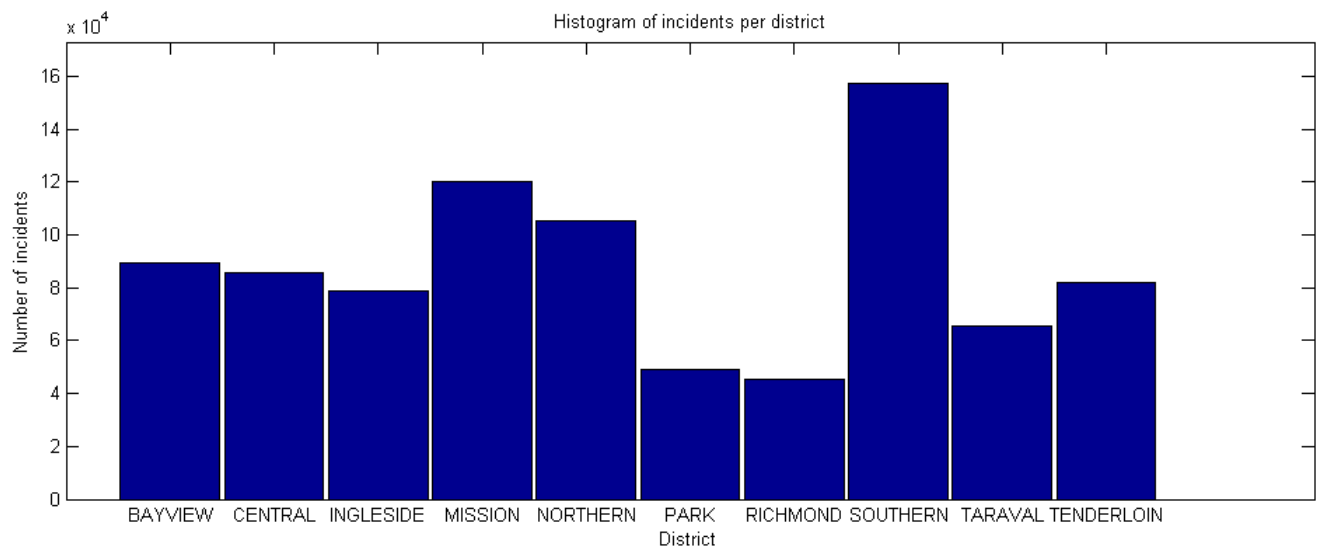
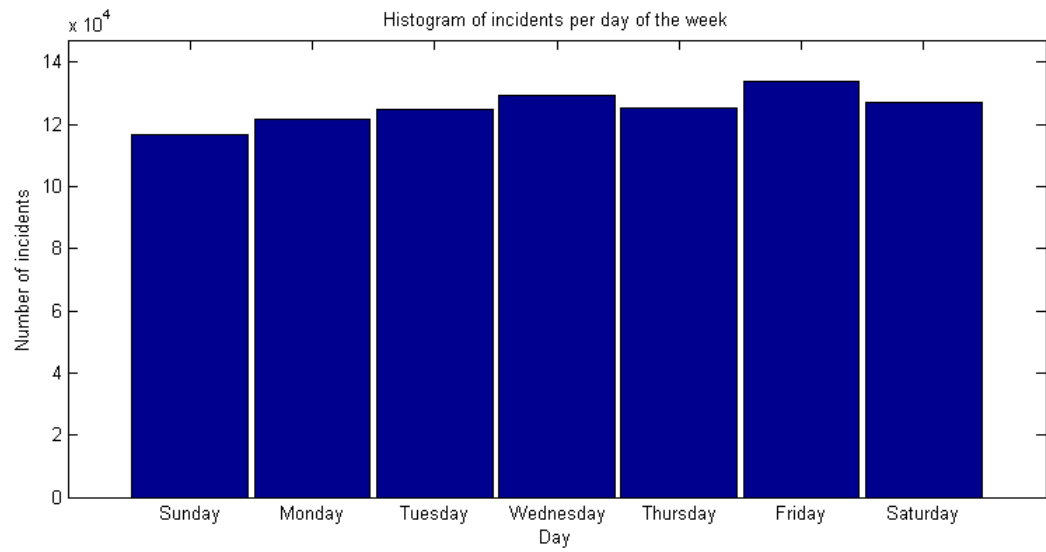
Mikhail Andreev

October 31, 2015

1 SAN FRANCISCO CRIME PREDICTION

1.1 PART A





The list of crimes with the hour they are most likely to occur.

Crime	Hour
ARSON	0
ASSAULT	0
BAD_CHECKS	12
BRIBERY	17
BURGLARY	17
DISORDERLY_CONDUCT	6
DRIVING_UNDER_THE_INFLUENCE	0
DRUG_NARCOTIC	14
DRUNKENNESS	0
EMBEZZLEMENT	0
EXTORTION	0
FAMILY_OFFENSES	15
FORGERY_COUNTERFEITING	0
FRAUD	0

GAMBLING	13
KIDNAPPING	0
LARCENY_THEFT	18
LIQUOR_LAWS	17
LOITERING	17
MISSING_PERSON	8
NON_CRIMINAL	12
OTHER_OFFENSES	17
PORNOGRAPHY_OBSCENE_MAT	14
PROSTITUTION	22
RECOVERED_VEHICLE	12
ROBBERY	21
RUNAWAY	18
SECONDARY_CODES	12
SEX_OFFENSES_FORCIBLE	0
SEX_OFFENSES_NON_FORCIBLE	0
STOLEN_PROPERTY	16
SUICIDE	18
SUSPICIOUS_OCC	12
TREA	5
TRESPASS	6
VANDALISM	18
VEHICLE_THEFT	18
WARRANTS	17
WEAPON_LAWS	16

The crime most likely to occur in BAYVIEW is OTHER OFFENSES

The crime most likely to occur in CENTRAL is LARCENY and THEFT

The crime most likely to occur in INGLESIDE is OTHER OFFENSES

The crime most likely to occur in MISSION is OTHER OFFENSES

The crime most likely to occur in NORTHERN is LARCENY and THEFT

The crime most likely to occur in PARK is LARCENY and THEFT

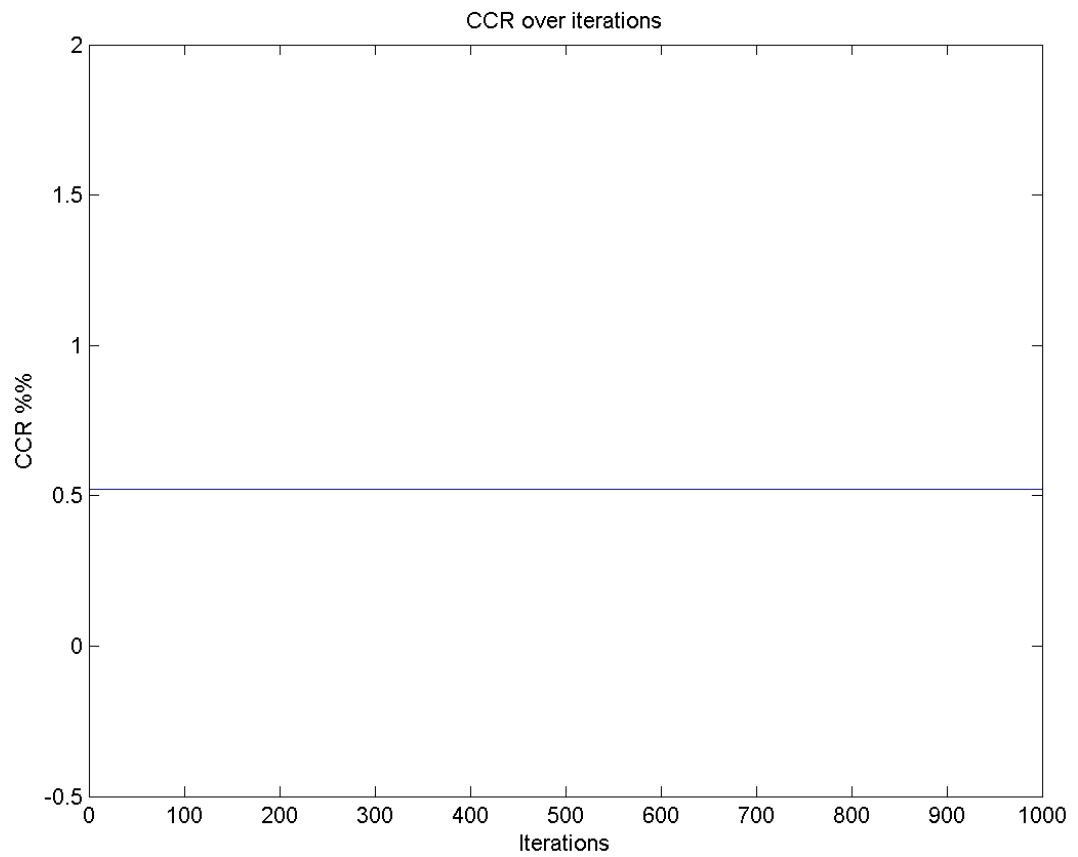
The crime most likely to occur in RICHMOND is LARCENY and THEFT

The crime most likely to occur in SOUTHERN is LARCENY and THEFT

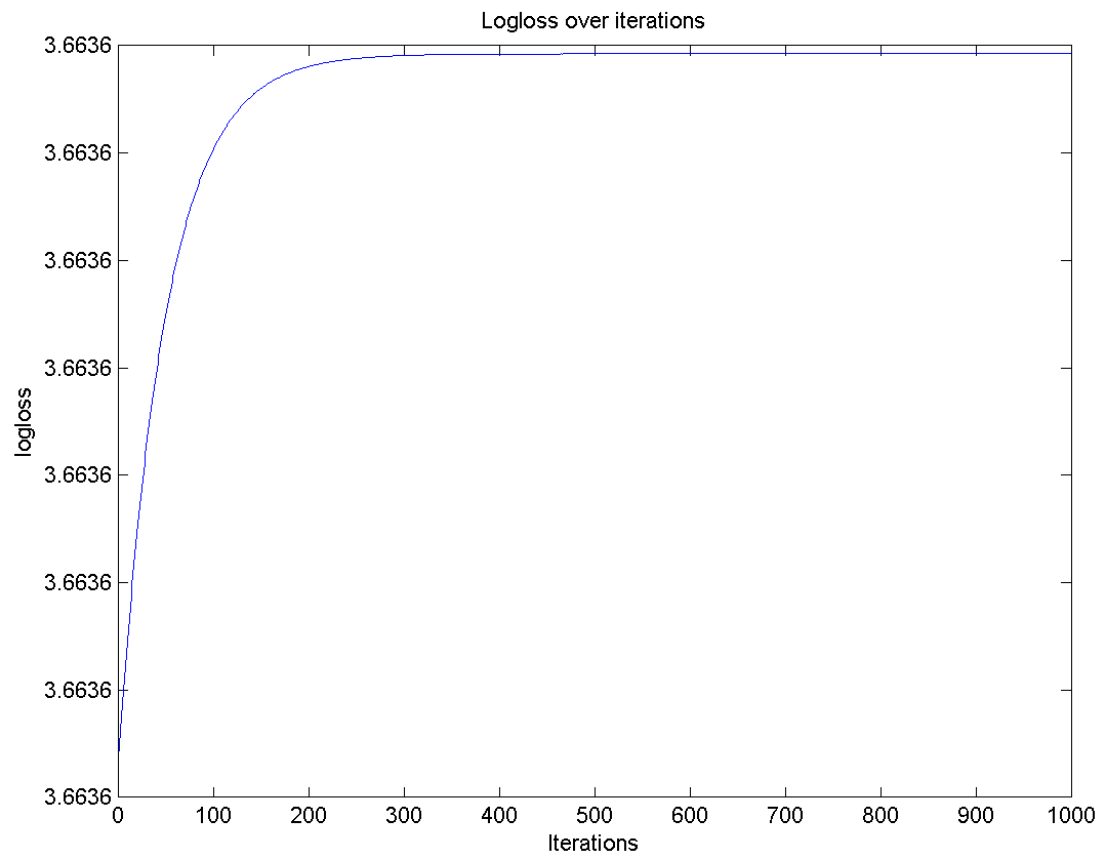
The crime most likely to occur in TARAVAL is LARCENY and THEFT

The crime most likely to occur in TENDERLOIN is DRUG and NARCOTIC

1.2 PART B



This graph indicates that the CCR rate did not noticeably change over the different iterations of the parameters. Unfortunately, this also indicates the CCR rate was very low for the experiment. The end result was only .5% correct detection.



1.3 PART C

2 SVM CLASSIFIER FOR TEXT DOCUMENTS

2.1 PART A

2.2 PART B

2.3 PART C

2.4 PART D

2.5 PART E

2.6 PART F