

NXP Anomaly Detection Toolbox

File

About

Main

Features

FFT

GMM

SVM

Composite

Connections

Sensor Port

COM1

Auto Detect

Board

FRDM-K66F

Firmware

1.0

Data Logger

App Description

my application here

Note1

any note you like

Note2

another

Note3

and another

Output Folder

<output folder here>

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Feature Selection

		Accelerometer X	Accelerometer Y	Accelerometer Z	Accerometer VM	Magnetomer X	Magnetomer Y	Magnetomer Z	Magnetomer VM	Gyro X	Gvro Y	Gyro Z	Gyro VM	Temperature	Pressure	Microphone
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Mean	1															
Variance	2															
Skew Factor	3															
Kurtosis	4															
FFT	5															
Mean Crossing Rate	6															
STD	7															
STD(X) / Total STD	8															
STD(Y) / Total STD	9															
STD(Z) / Total STD	10															

Window Size

Accelerometer

128

Magnetometer

128

Gyroscope

128

Pressure

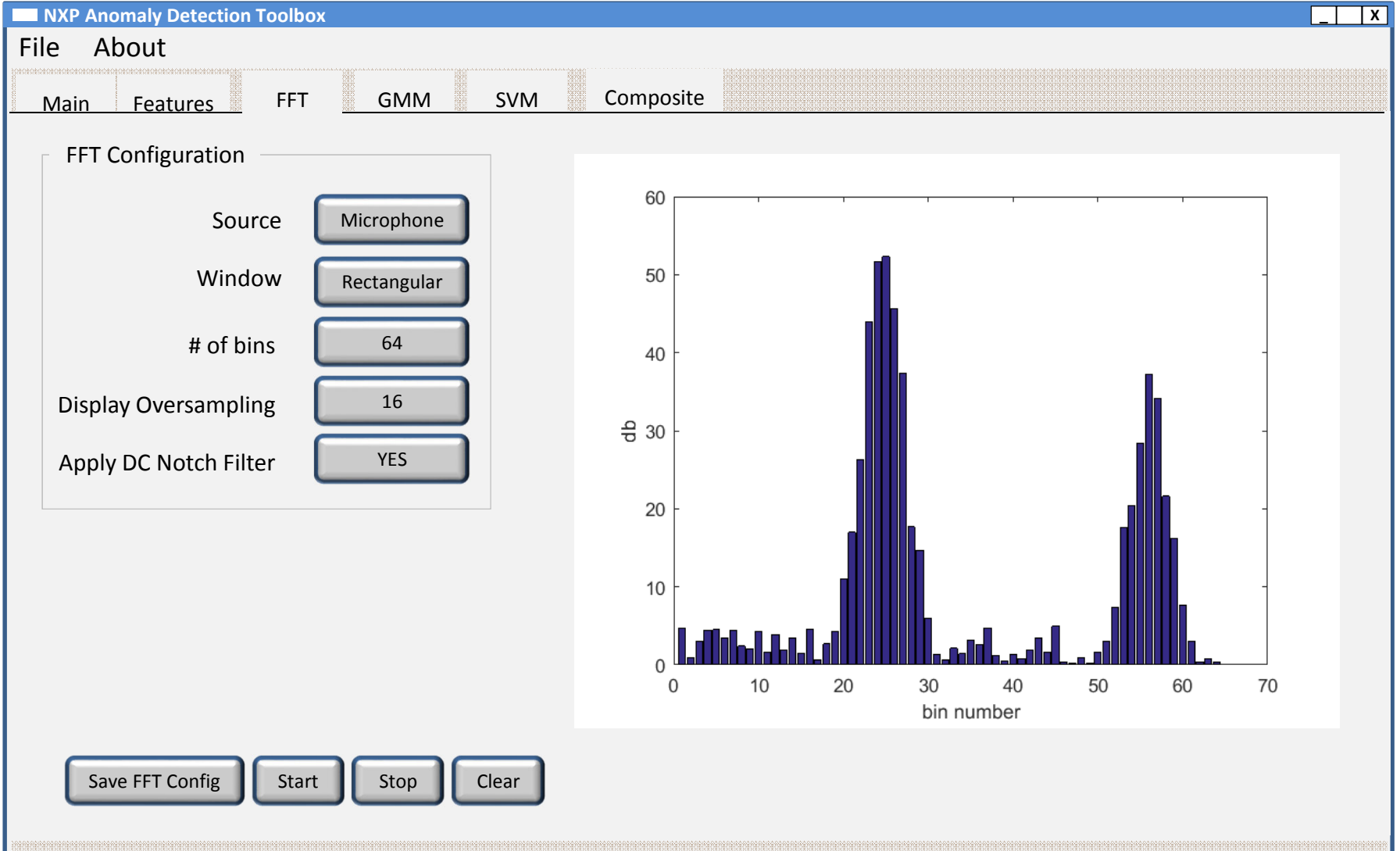
1

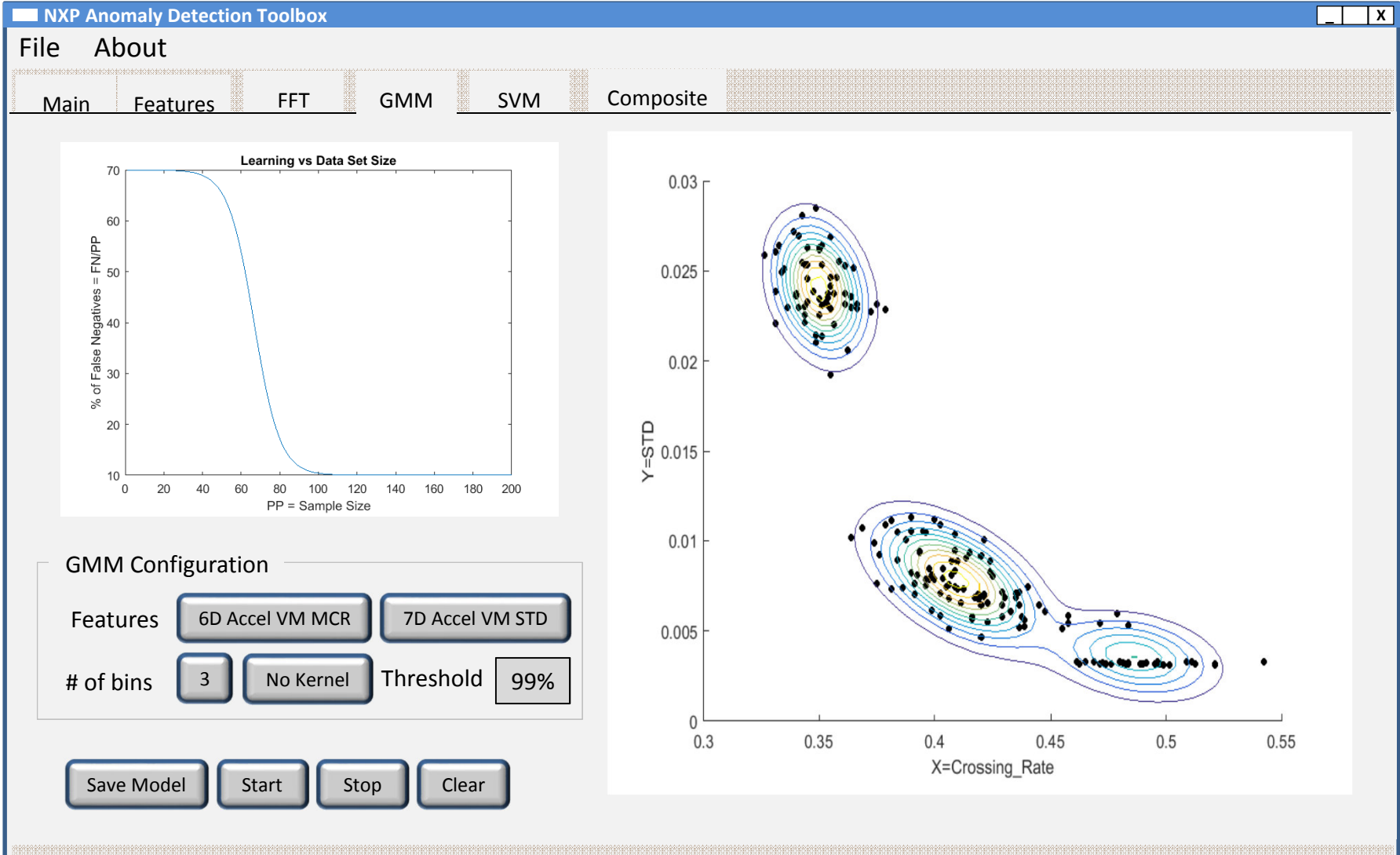
Temperature

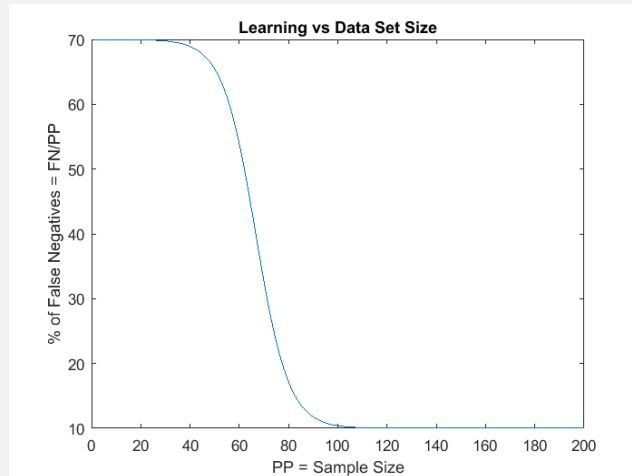
128

Microphone

1024







SVM Configuration

Features

6D Accel VM MCR

NONE

Radial Basis Kernel

nu

0.05

G

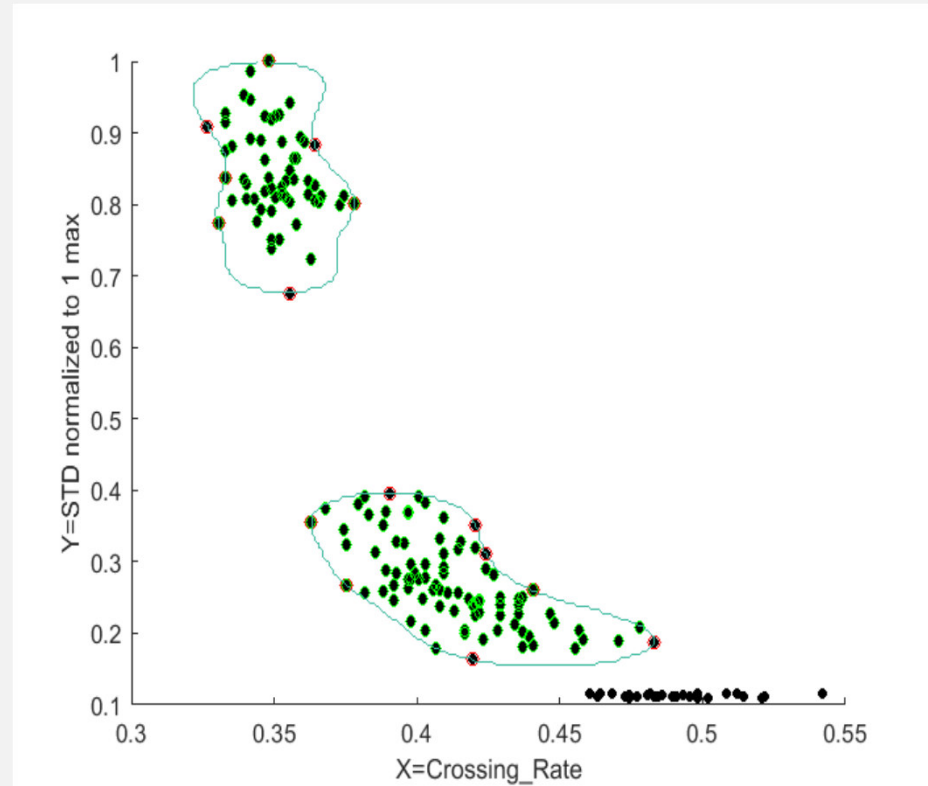
200

Save Model

Start

Stop

Clear



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Model #	Model Type	Input #1	Input #2	Epochs Required	Algorithm Parameters	
1	GMM	7D – Accel VM STD	6D – Accelerometer VM ZCR	100	1 gaussian	<div>Delete</div>
2	SVM	7D – Accel VM STD	6D – Accelerometer VM ZCR	100	kernel = radial basis function nu = 0.5 g = 200	<div>Delete</div>
3	SVM	50 – Microphone FFT	50 – Microphone FFT	100	64 bins bin 5 Total Power	<div>Delete</div>
4	GMM	3D – Accel VM Kurtosis		100		<div>Delete</div>
5	GMM	3C – Accel VM Skew Factor				<div>Delete</div>

Print Report

Export C Model Control File

Export Matlab Model Control File

Failures required for flag

3