import sys
import os
directory = "/".join(os.getcwd().split("/")[:-1])
print("directory: " , directory)
sys.path.insert(1, directory)
from algorithms.LogisticRegression import LogisticRegression
from CreateAlgorithmAnalysisMD import createAnalysisDocument
createAnalysisDocument(LogisticRegression())

directory: /Users/jimmy/Desktop/NYUCS/AIfSR/Github

### Accuracy Measurements:

Here is the accuracy of our algorithm when the training set, test set, and cross validation set is passed in

#### Inaccurate Trajectories

Here is some more information on the trajectories it predicted incorrectly. It displays th e indexes of the incorrect trajectories, followed by the actual diffusion type and the incorrect predicted diffusion type.

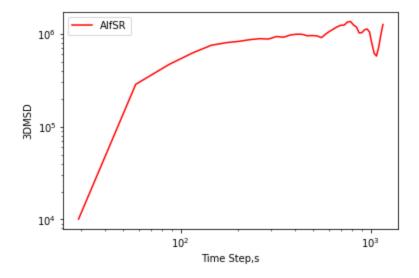
### [Ballistic Motion, Confined Diffusion, Random Walk, Very Confinded Diffusion]

```
Indexes of incorrect predictions in testing:
3260,
Actual Diffusion Types:
[0, 0, 1, 0],
Incorrect predictions:
[0.0, 0.0, 0.0, 1.0],

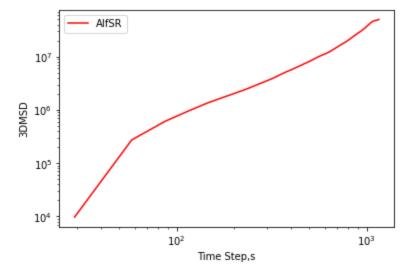
Indexes of incorrect predictions in validation:
3746, 3886,
Actual Diffusion Types:
[0, 0, 1, 0], [0, 0, 1, 0],
Incorrect predictions:
[1.0, 0.0, 0.0, 0.0], [1.0, 0.0, 0.0, 0.0],
```

## Graphs of Incorrect Trajectories:

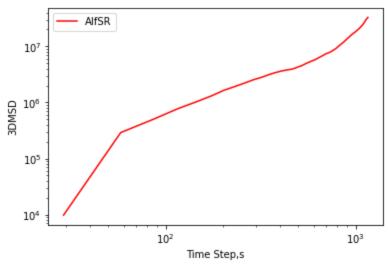
Here is the graphs of the trajectories that were predicted incorrectly data/02\_01\_Simulated\_trajectories/Simple\_cases/Random\_walk/trajectories/random\_260.tck



data/02\_01\_Simulated\_trajectories/Simple\_cases/Random\_walk/trajectories/random\_260.tck



data/02\_01\_Simulated\_trajectories/Simple\_cases/Random\_walk/trajectories/random\_260.tck



<class 'features.Features'>

# Analytics of Predictions:

Here is some percentages and information derived from the predictions of the algorithm

M0:	bal:	6.667%	cd:	13.333%	rw:	73.333%	vcd:	6.667%
M1:	bal:	11.765%	cd:	11.765%	rw:	70.588%	vcd:	5.882%
M2:	bal:	5.263%	cd:	0.000%	rw:	89.474%	vcd:	5.263%
Ovr:	bal:	7.843%	cd:	7.843%	rw:	78.431%	vcd:	5.882%