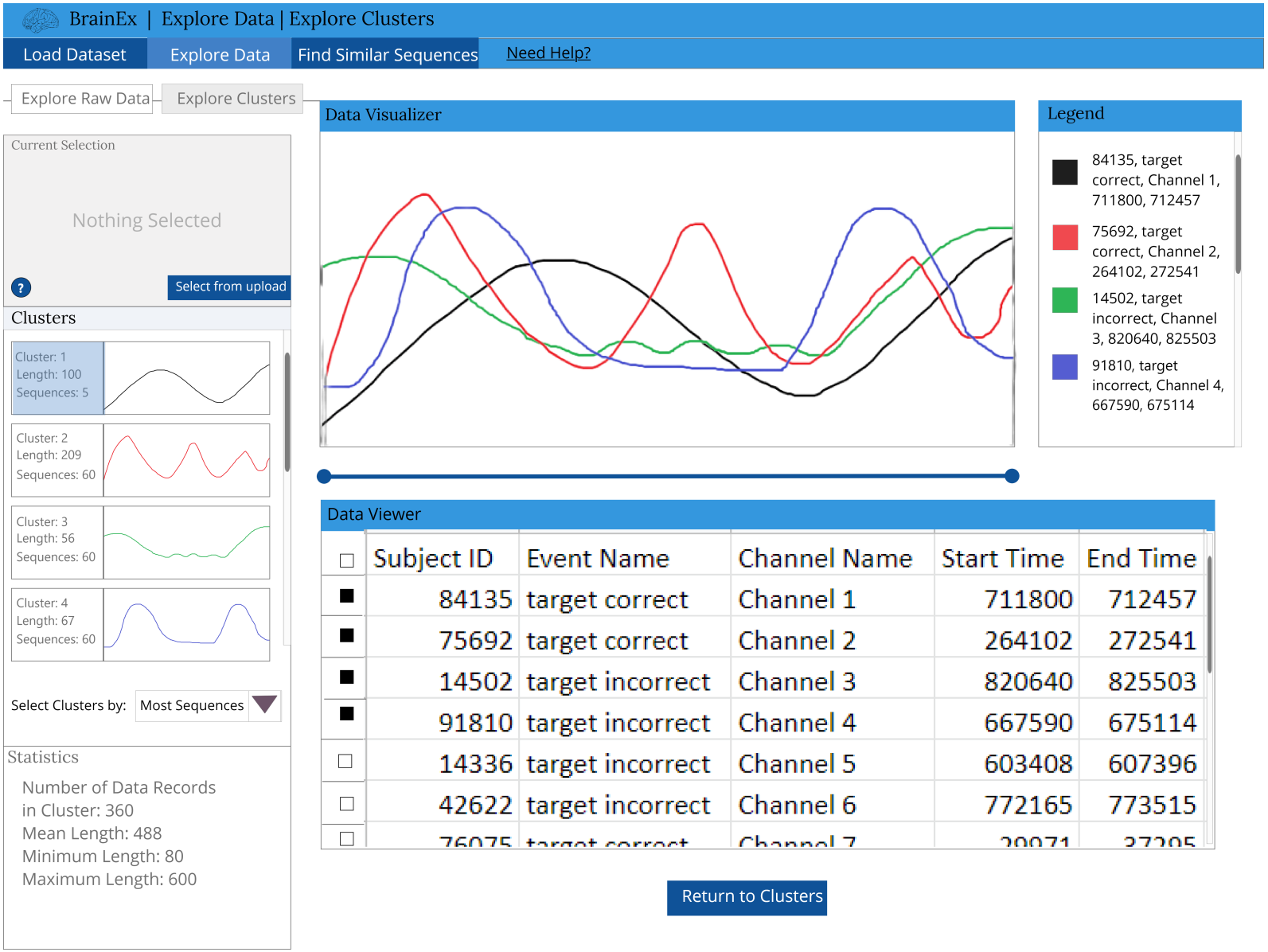
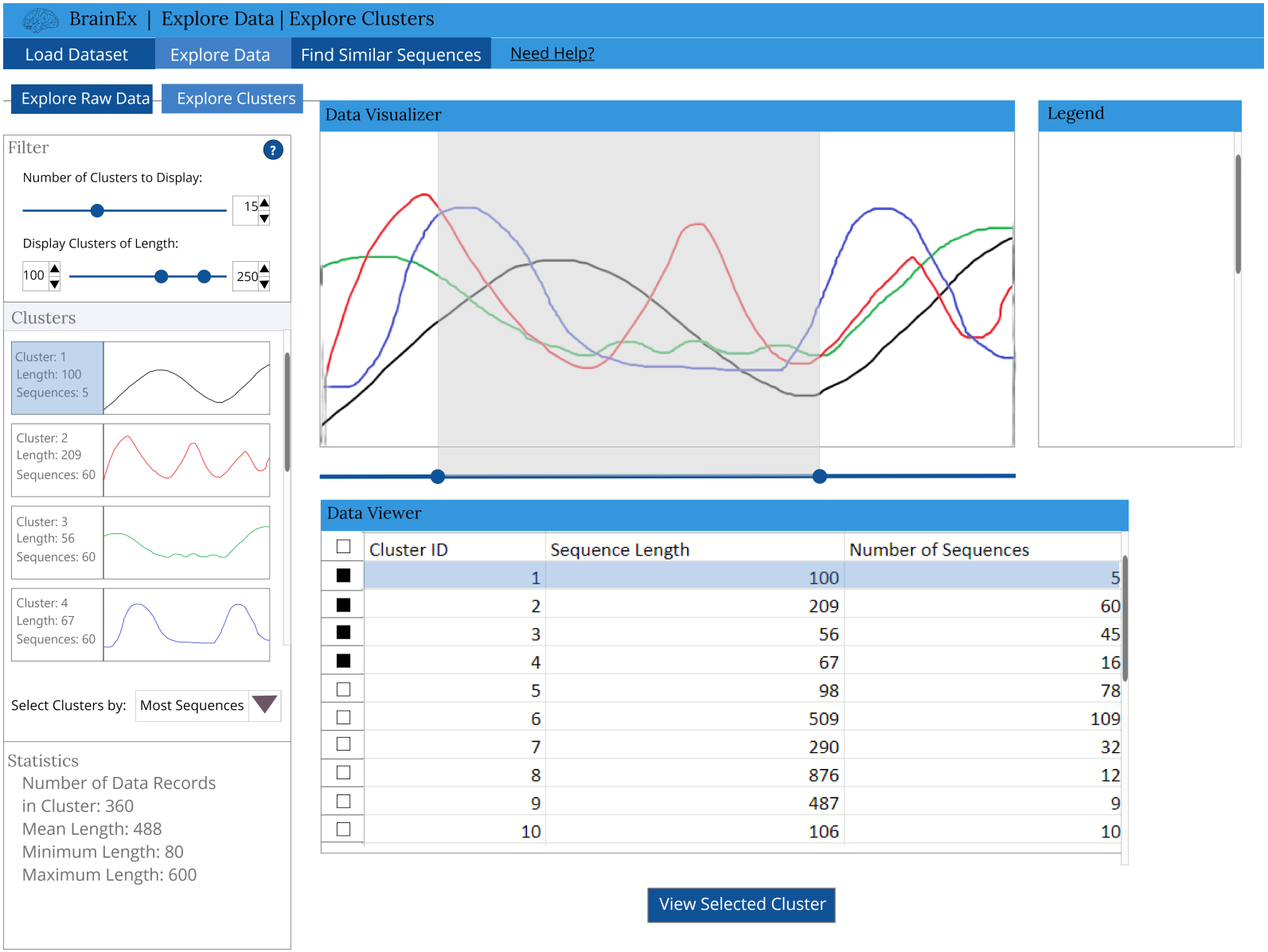
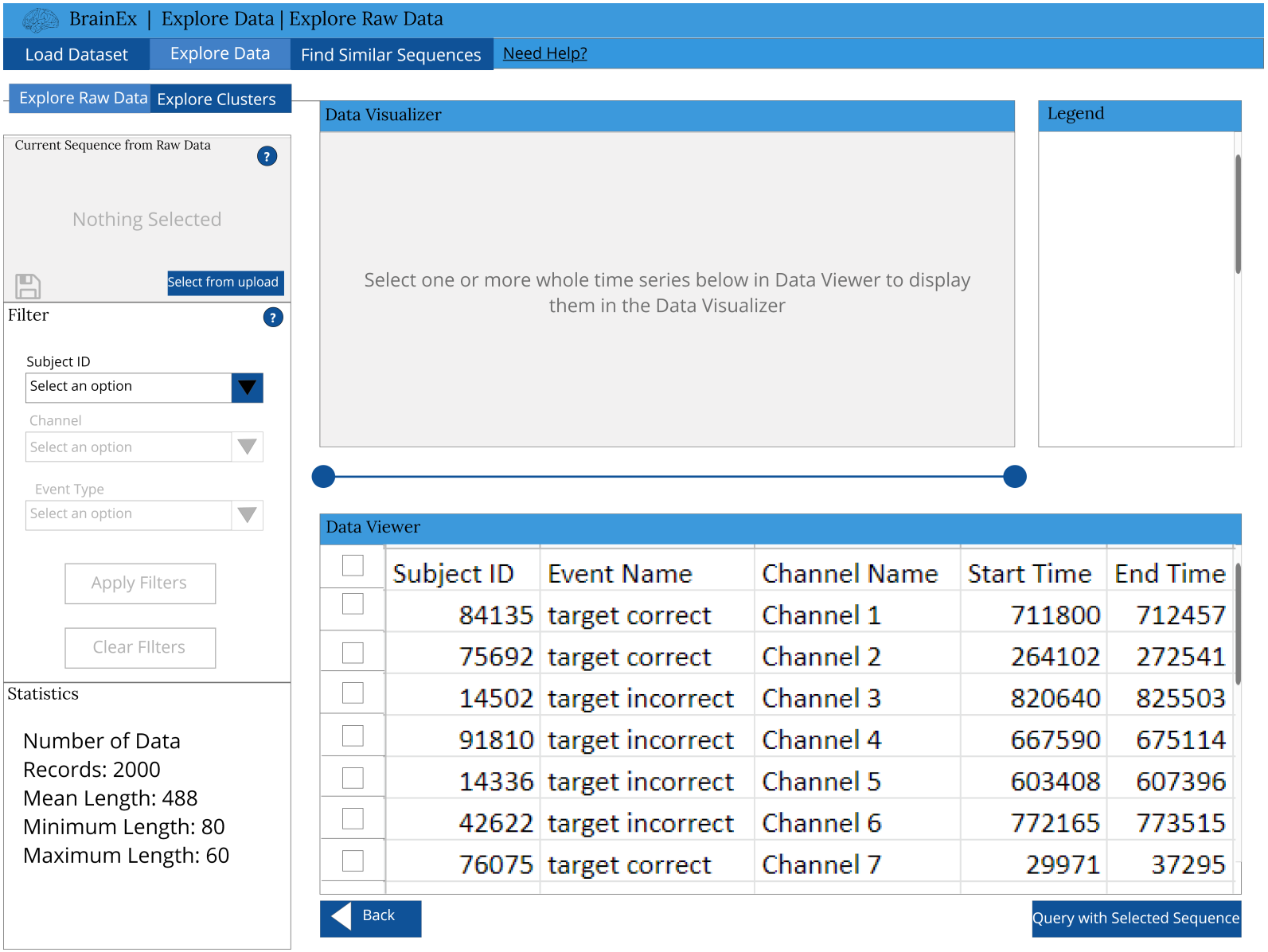
# BrainEx

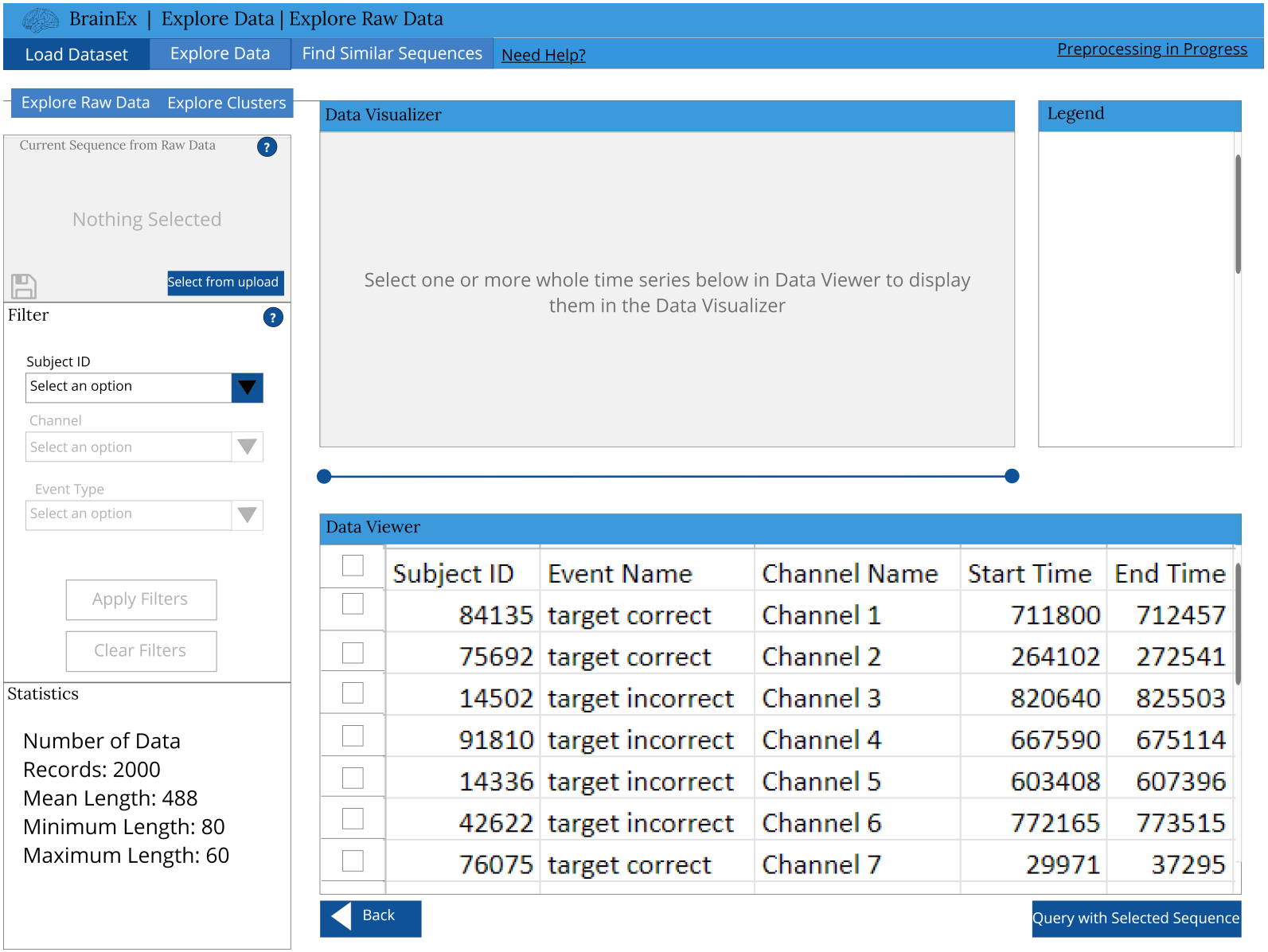
20 Screens

Maggie G. Kyra B. Vandana A. yihan l.


BrainEx | Explore Data | Explore Clusters
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Selection
Nothing Selected
Select from upload
Clusters
Cluster: 1
Length: 100
Sequences: 5
Cluster: 2
Length: 209
Sequences: 60
Cluster: 3
Length: 56
Sequences: 60
Cluster: 4
Length: 67
Sequences: 60
Select Clusters by:
Most Sequences
Statistics
Number of Data Records in Cluster: 360
Mean Length: 488
Minimum Length: 80
Maximum Length: 600
Data Visualizer
Legend
84135, target correct, Channel 1, 711800, 712457
75692, target correct, Channel 2, 264102, 272541
14502, target incorrect, Channel 3, 820640, 825503
91810, target incorrect, Channel 4, 667590, 675114
Data Viewer
Subject ID
Event Name
Channel Name
Start Time
End Time
84135 target correct Channel 1 711800 712457
75692 target correct Channel 2 264102 272541
14502 target incorrect Channel 3 820640 825503
91810 target incorrect Channel 4 667590 675114
14336 target incorrect Channel 5 603408 607396
42622 target incorrect Channel 6 772165 773515
Return to Clusters


BrainEx | Explore Data | Explore Clusters
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Filter
Number of Clusters to Display:
15
Display Clusters of Length:
100
250
Clusters
Cluster: 1
Length: 100
Sequences: 5
Cluster: 2
Length: 209
Sequences: 60
Cluster: 3
Length: 56
Sequences: 60
Cluster: 4
Length: 67
Sequences: 60
Select Clusters by:
Most Sequences
Statistics
Number of Data Records in Cluster: 360
Mean Length: 488
Minimum Length: 80
Maximum Length: 600
Data Visualizer
Legend
Data Viewer
Cluster ID
Sequence Length
Number of Sequences
1 100 5
2 209 60
3 56 45
4 67 16
5 98 78
6 509 109
7 290 32
8 876 12
9 487 9
10 106 10
View Selected Cluster


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
Select an option
Channel
Select an option
Event Type
Select an option
Apply Filters
Clear FIlters
Statistics
Number of Data Records: 2000
Mean Length: 488
Minimum Length: 80
Maximum Length: 60
Data Visualizer
Select one or more whole time series below in Data Viewer to display them in the Data Visualizer
Legend
Data Viewer
Subject ID | Event Name | Channel Name | Start Time | End Time
84135 | target correct | Channel 1 | 711800 | 712457
75692 | target correct | Channel 2 | 264102 | 272541
14502 | target incorrect | Channel 3 | 820640 | 825503
91810 | target incorrect | Channel 4 | 667590 | 675114
14336 | target incorrect | Channel 5 | 603408 | 607396
42622 | target incorrect | Channel 6 | 772165 | 773515
76075 | target correct | Channel 7 | 29971 | 37295
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Preprocessing in Progress
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
Select an option
Channel
Select an option
Event Type
Select an option
Apply Filters
Clear Filters
Statistics
Number of Data Records: 2000
Mean Length: 488
Minimum Length: 80
Maximum Length: 60
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14336 | target incorrect | Channel 5 | 603408 | 607396
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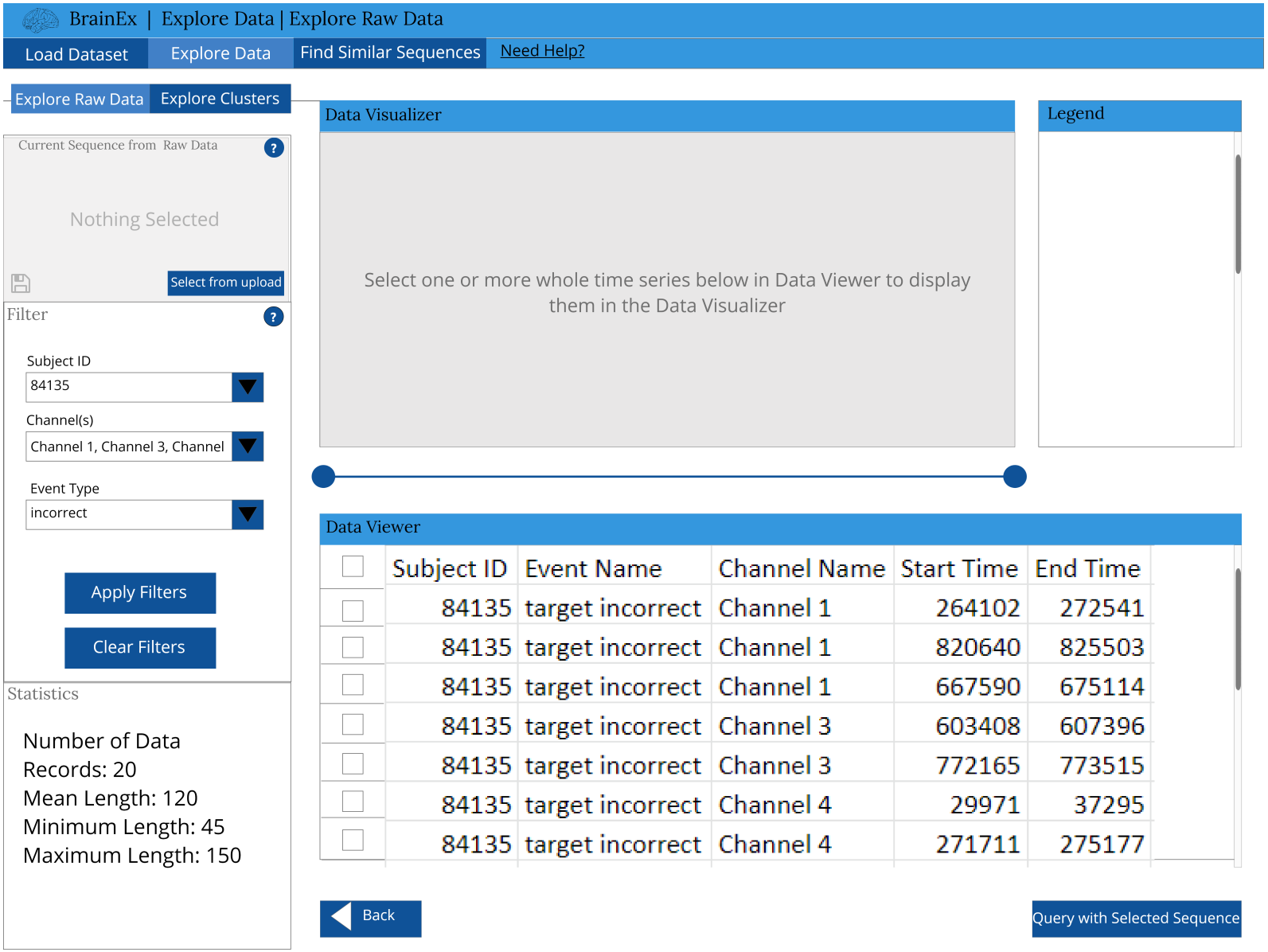
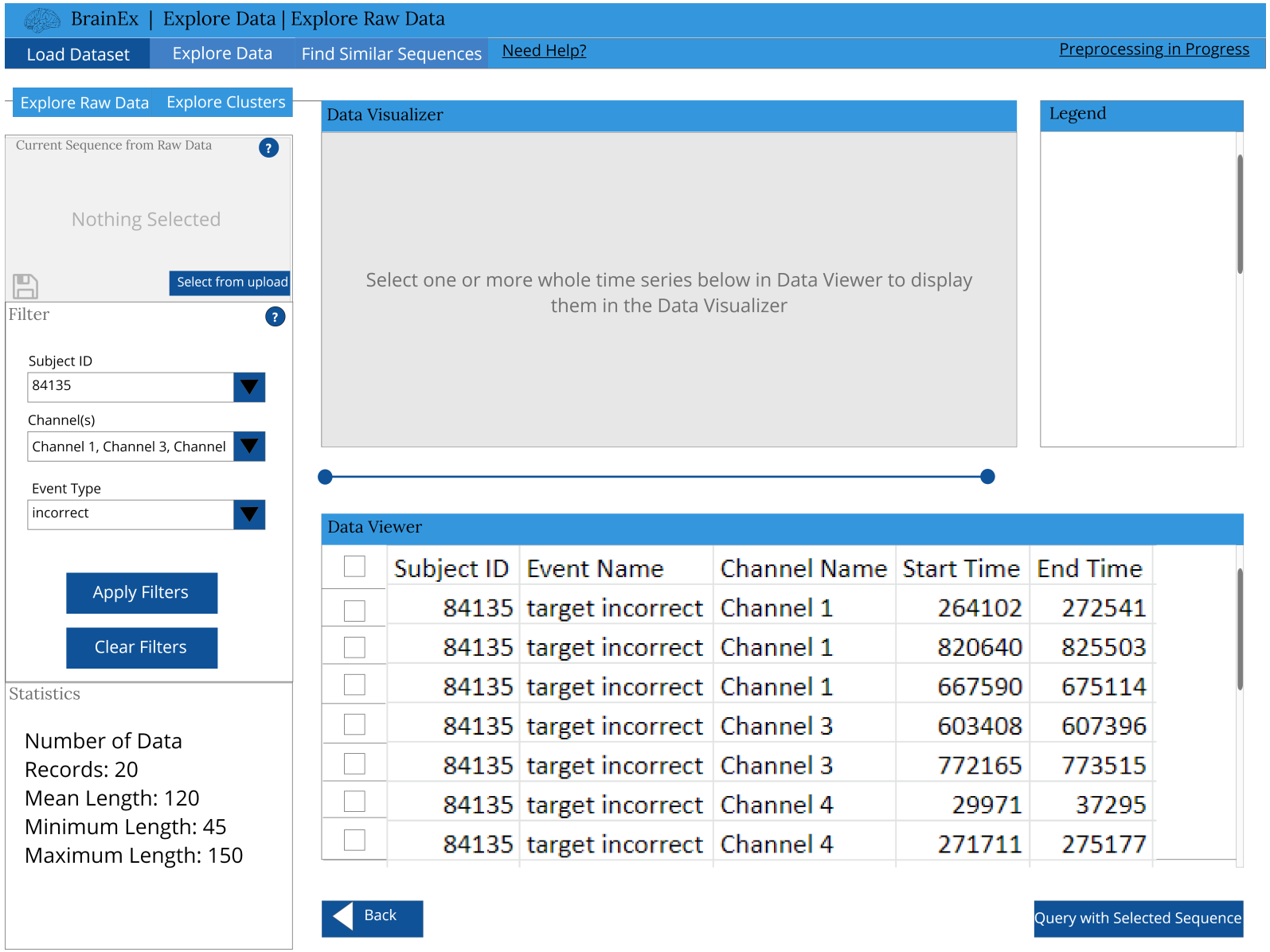
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
84135
Channel(s)
Channel 1, Channel 3, Channel
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
Number of Data
Records: 20
Mean Length: 120
Minimum Length: 45
Maximum Length: 150
Data Visualizer
Select one or more whole time series below in Data Viewer to display them in the Data Visualizer
Legend
Data Viewer
Subject ID Event Name Channel Name Start Time End Time
84135 target incorrect Channel 1 264102 272541
84135 target incorrect Channel 1 820640 825503
84135 target incorrect Channel 1 667590 675114
84135 target incorrect Channel 3 603408 607396
84135 target incorrect Channel 3 772165 773515
84135 target incorrect Channel 4 29971 37295
84135 target incorrect Channel 4 271711 275177
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Preprocessing in Progress
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
84135
Channel(s)
Channel 1, Channel 3, Channel
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
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Records: 20
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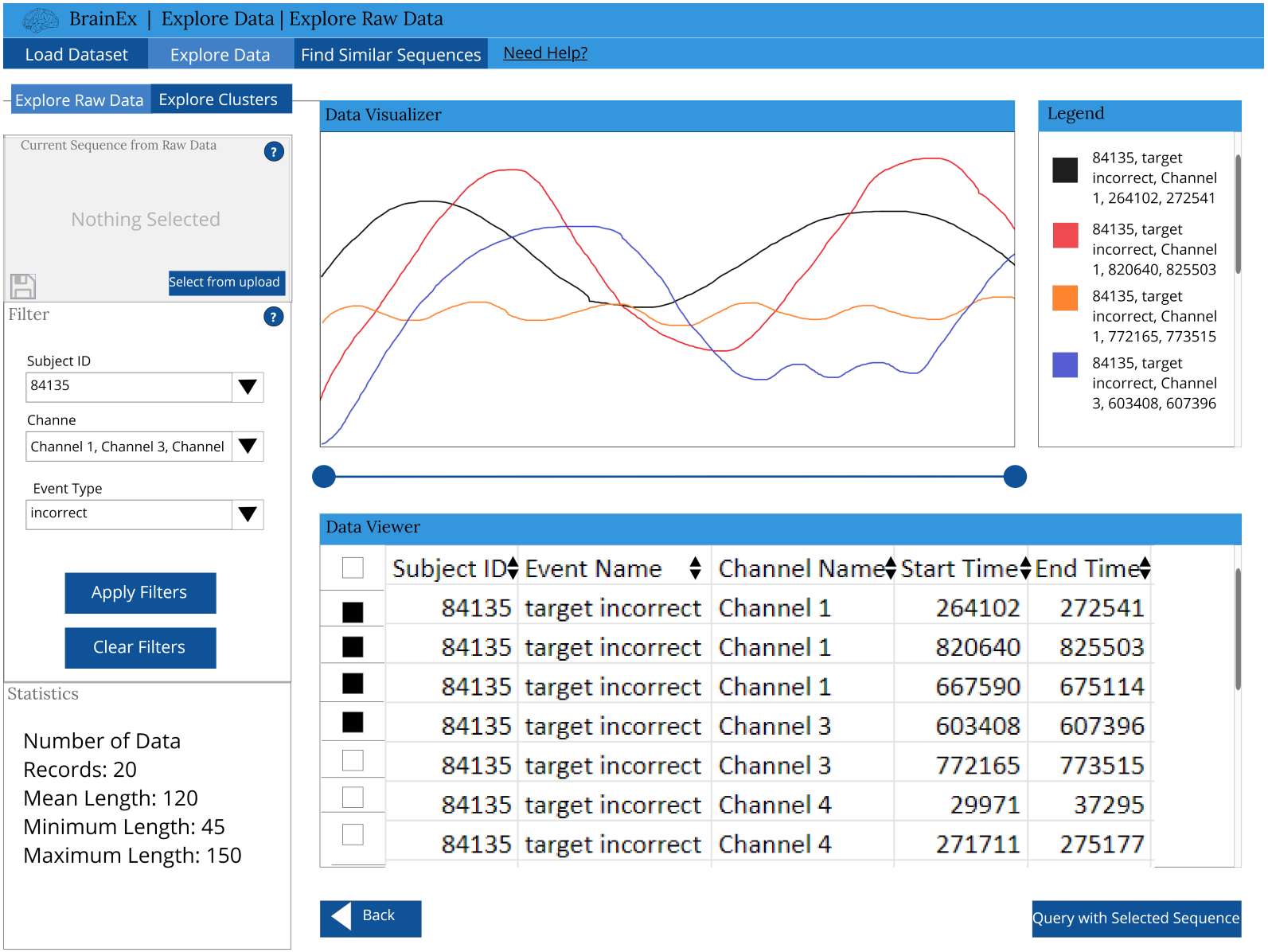
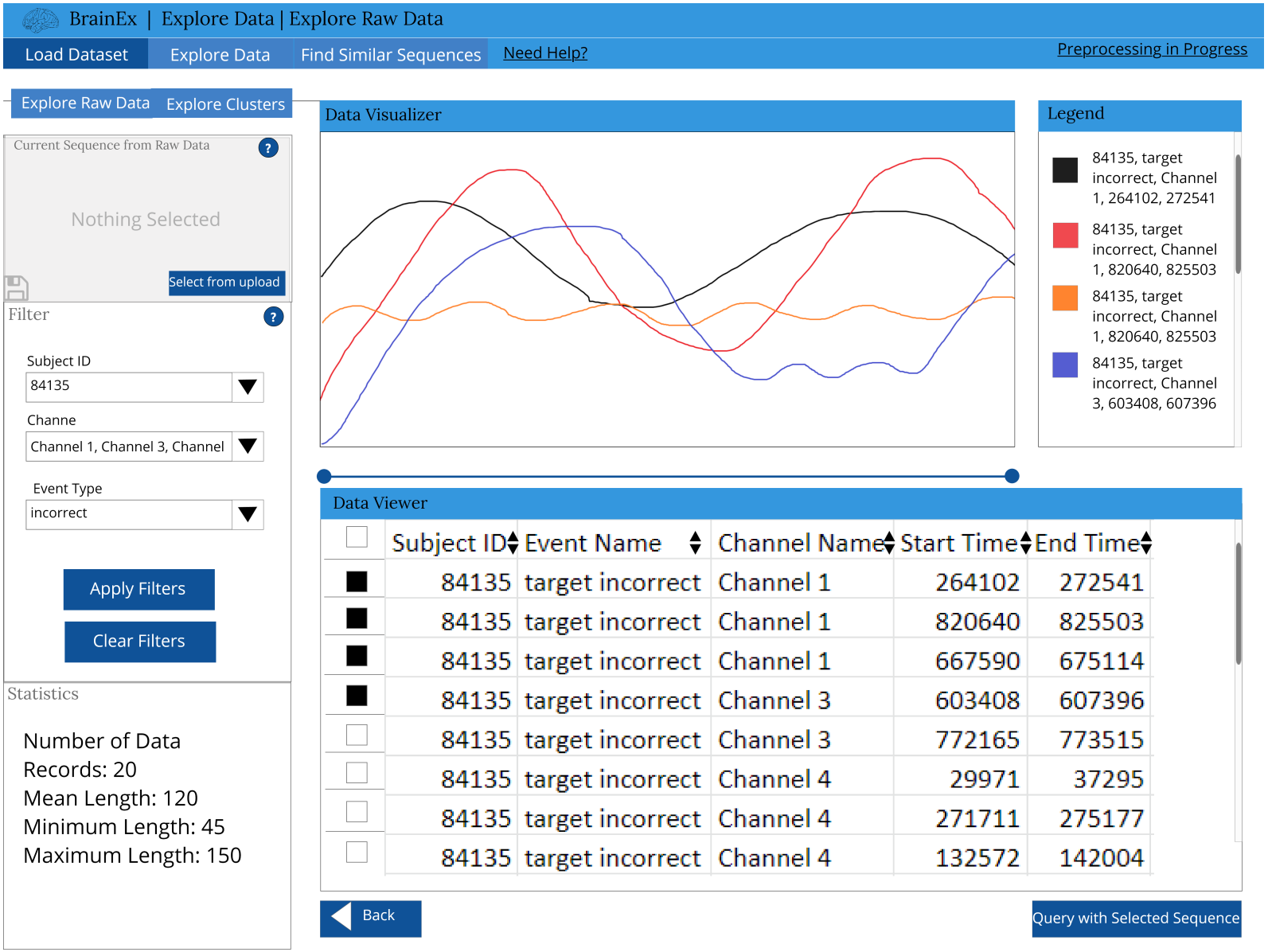
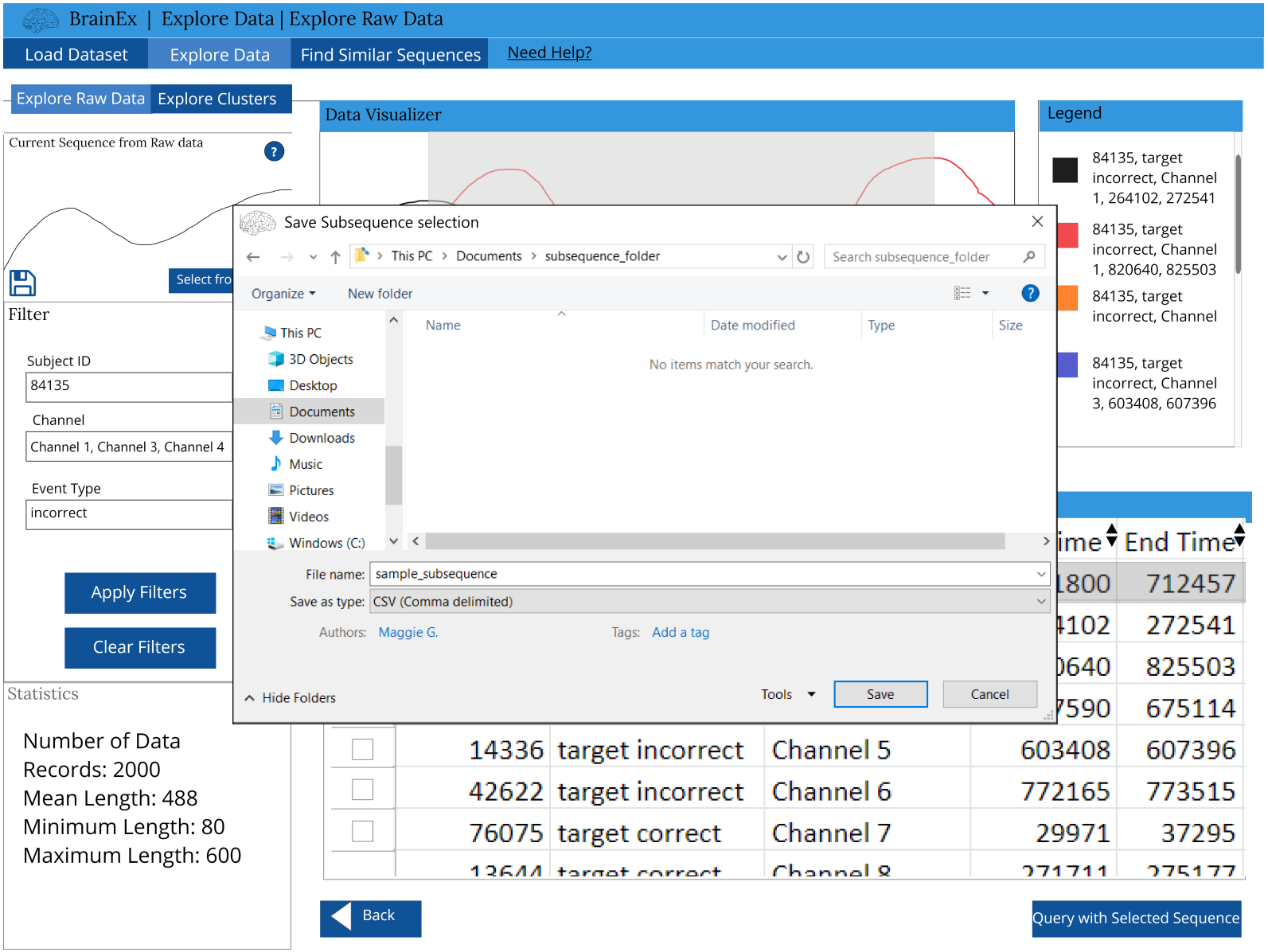
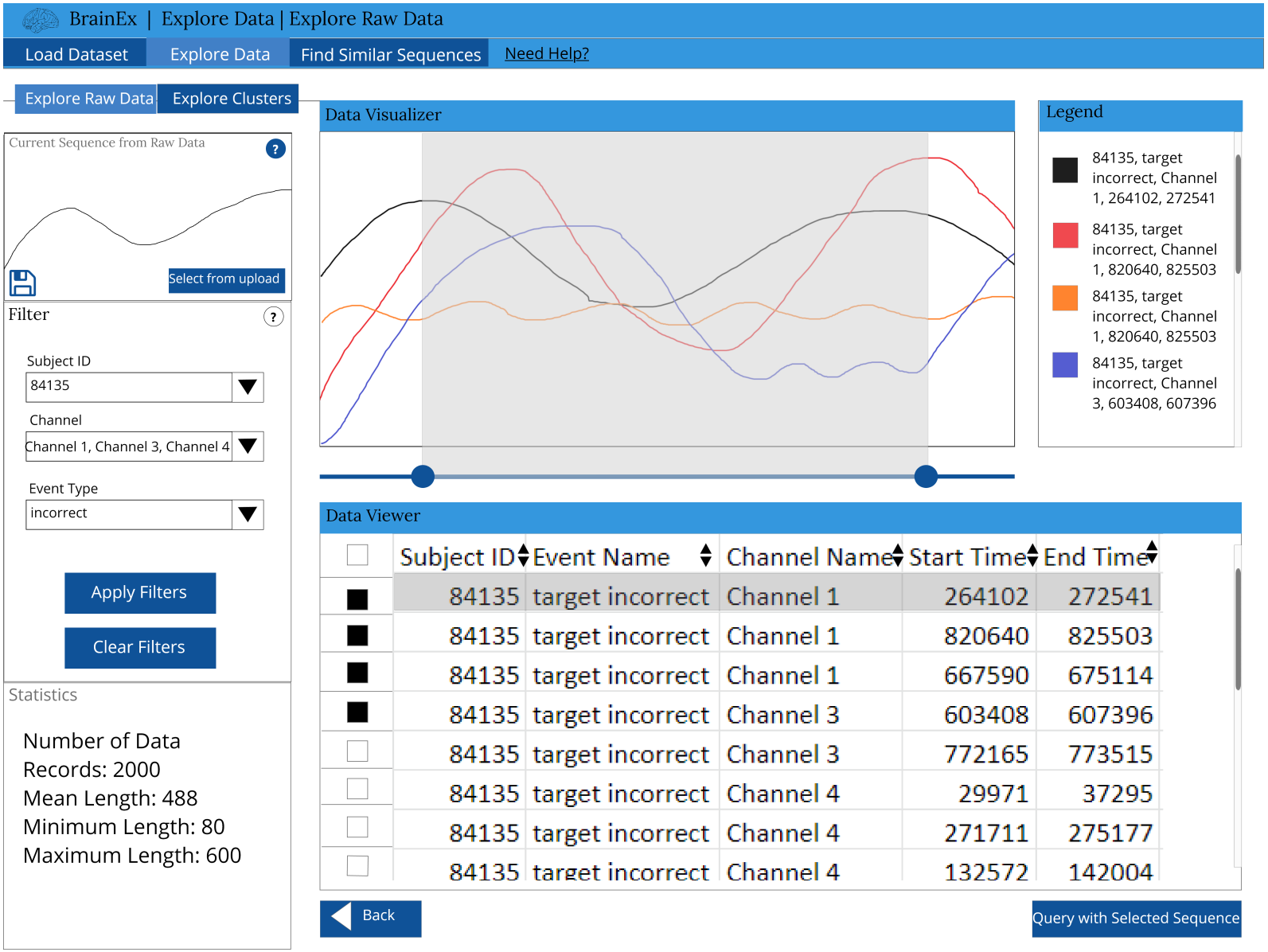
84135 target incorrect Channel 3 603408 607396
84135 target incorrect Channel 3 772165 773515
84135 target incorrect Channel 4 29971 37295
84135 target incorrect Channel 4 271711 275177
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
84135
Channe
Channel 1, Channel 3, Channel
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
Number of Data
Records: 20
Mean Length: 120
Minimum Length: 45
Maximum Length: 150
Data Visualizer
Legend
84135, target incorrect, Channel 1, 264102, 272541
84135, target incorrect, Channel 1, 820640, 825503
84135, target incorrect, Channel 1, 772165, 773515
84135, target incorrect, Channel 3, 603408, 607396
Data Viewer
Subject ID
Event Name
Channel Name
Start Time
End Time
84135 target incorrect Channel 1 264102 272541
84135 target incorrect Channel 1 820640 825503
84135 target incorrect Channel 1 667590 675114
84135 target incorrect Channel 3 603408 607396
84135 target incorrect Channel 3 772165 773515
84135 target incorrect Channel 4 29971 37295
84135 target incorrect Channel 4 271711 275177
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Preprocessing in Progress
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Nothing Selected
Select from upload
Filter
Subject ID
84135
Channe
Channel 1, Channel 3, Channel
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
Number of Data
Records: 20
Mean Length: 120
Minimum Length: 45
Maximum Length: 150
Data Visualizer
Legend
84135, target incorrect, Channel 1, 264102, 272541
84135, target incorrect, Channel 1, 820640, 825503
84135, target incorrect, Channel 1, 820640, 825503
84135, target incorrect, Channel 3, 603408, 607396
Data Viewer
Subject ID
Event Name
Channel Name
Start Time
End Time
84135 target incorrect Channel 1 264102 272541
84135 target incorrect Channel 1 820640 825503
84135 target incorrect Channel 1 667590 675114
84135 target incorrect Channel 3 603408 607396
84135 target incorrect Channel 3 772165 773515
84135 target incorrect Channel 4 29971 37295
84135 target incorrect Channel 4 271711 275177
84135 target incorrect Channel 4 132572 142004
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Sequence from Raw data
Select fro
Filter
Subject ID
84135
Channel
Channel 1, Channel 3, Channel 4
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
Number of Data
Records: 2000
Mean Length: 488
Minimum Length: 80
Maximum Length: 600
Data Visualizer
Legend
84135, target incorrect, Channel 1, 264102, 272541
84135, target incorrect, Channel 1, 820640, 825503
84135, target incorrect, Channel
84135, target incorrect, Channel 3, 603408, 607396
Save Subsequence selection
This PC
Documents
subsequence_folder
Search subsequence_folder
Organize
New folder
Name
Date modified
Type
Size
No items match your search.
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
File name: sample_subsequence
Save as type: CSV (Comma delimited)
Authors: Maggie G.
Tags: Add a tag
Hide Folders
Tools
Save
Cancel
ime
End Time
1800
712457
4102
272541
0640
825503
7590
675114
14336 target incorrect Channel 5 603408 607396
42622 target incorrect Channel 6 772165 773515
76075 target correct Channel 7 29971 37295
13644 target correct Channel 8 271711 275177
Back
Query with Selected Sequence


BrainEx | Explore Data | Explore Raw Data
Load Dataset
Explore Data
Find Similar Sequences
Need Help?
Explore Raw Data
Explore Clusters
Current Sequence from Raw Data
Select from upload
Filter
Subject ID
84135
Channel
Channel 1, Channel 3, Channel 4
Event Type
incorrect
Apply Filters
Clear Filters
Statistics
Number of Data Records: 2000
Mean Length: 488
Minimum Length: 80
Maximum Length: 600
Data Visualizer
Legend
84135, target incorrect, Channel 1, 264102, 272541
84135, target incorrect, Channel 1, 820640, 825503
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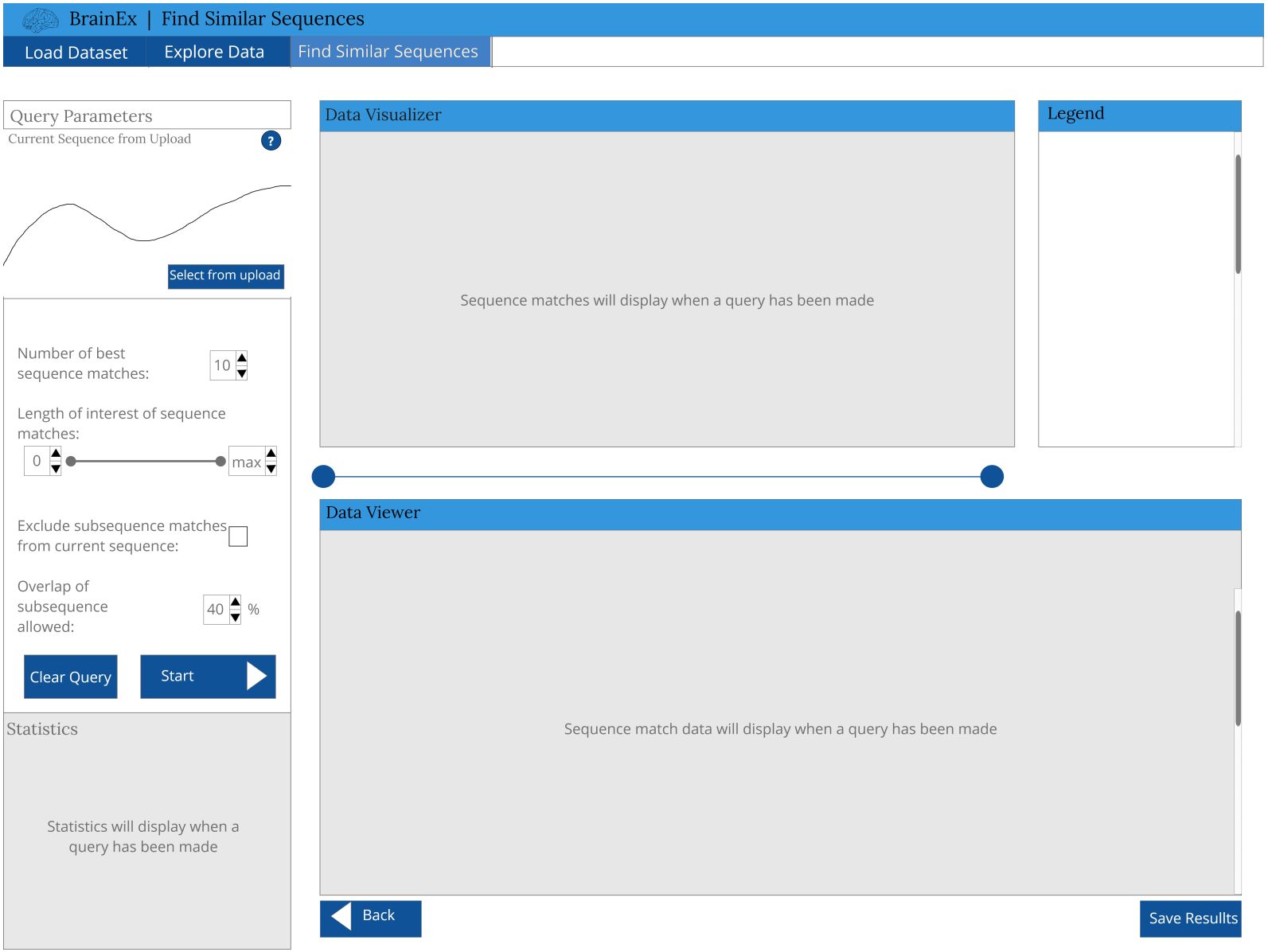
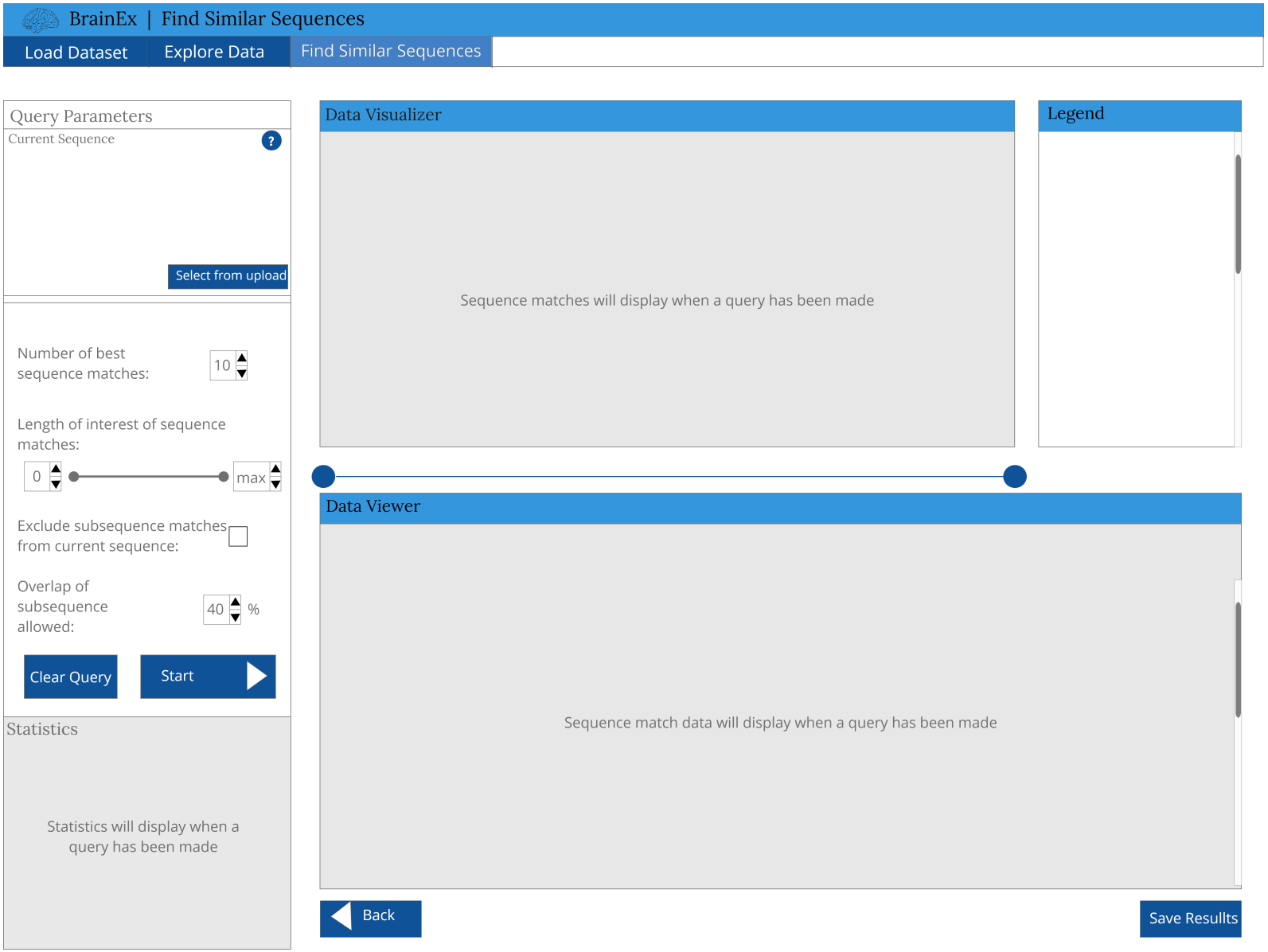
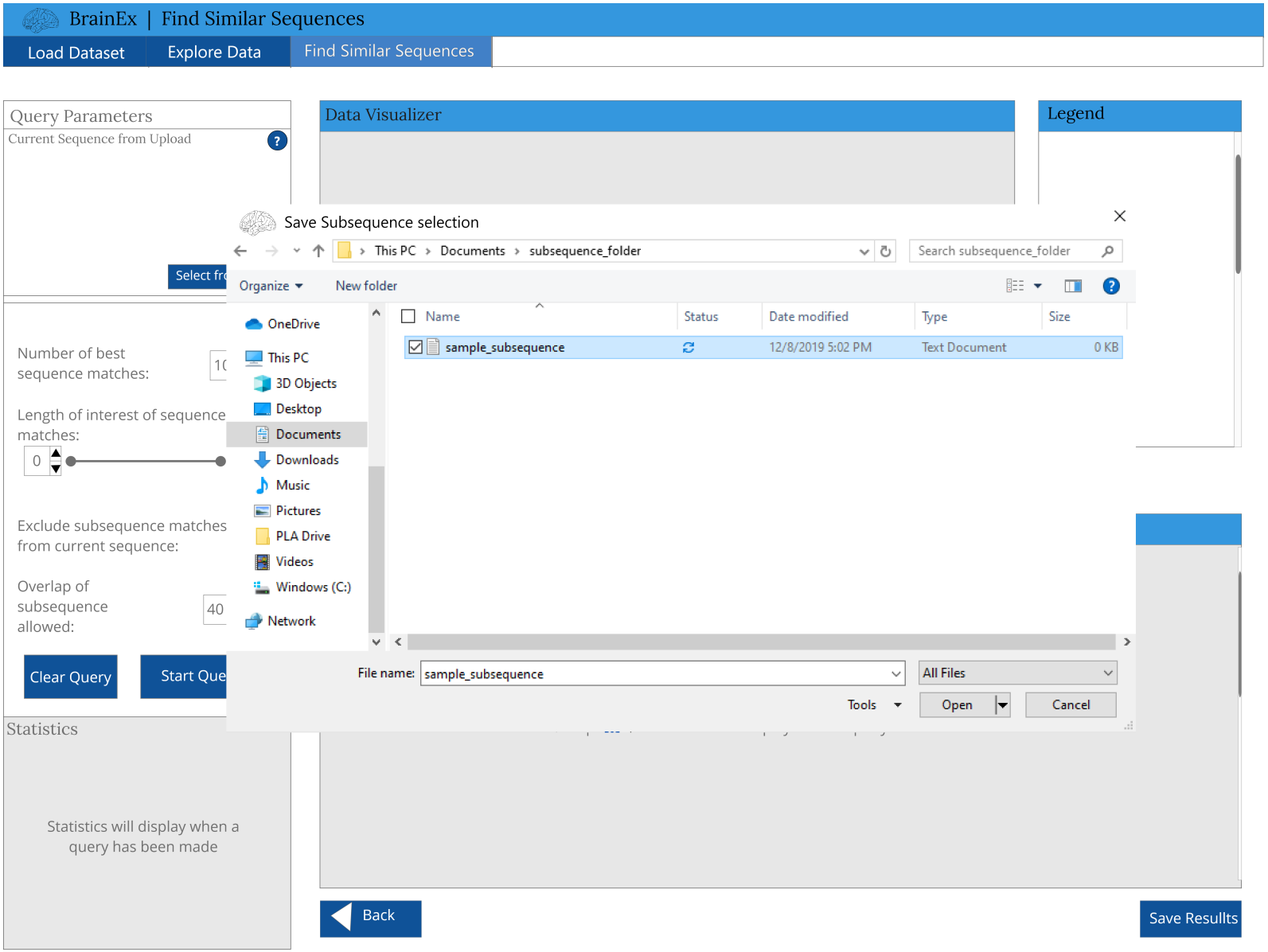
Data Viewer
Subject ID
Event Name
Channel Name
Start Time
End Time
84135 target incorrect Channel 1 264102 272541
84135 target incorrect Channel 1 820640 825503
84135 target incorrect Channel 1 667590 675114
84135 target incorrect Channel 3 603408 607396
84135 target incorrect Channel 3 772165 773515
84135 target incorrect Channel 4 29971 37295
84135 target incorrect Channel 4 271711 275177
84135 target incorrect Channel 4 132572 142004
Back
Query with Selected Sequence


BrainEx | Find Similar Sequences
Load Dataset
Explore Data
Find Similar Sequences
Query Parameters
Current Sequence from Upload
Select from upload
Number of best sequence matches:
10
Length of interest of sequence matches:
0
max
Exclude subsequence matches from current sequence:
Overlap of subsequence allowed:
40
%
Clear Query
Start
Statistics
Statistics will display when a query has been made
Data Visualizer
Sequence matches will display when a query has been made
Legend
Data Viewer
Sequence match data will display when a query has been made
Back
Save Resullts


BrainEx | Find Similar Sequences
Load Dataset
Explore Data
Find Similar Sequences
Query Parameters
Current Sequence
Select from upload
Number of best sequence matches:
10
Length of interest of sequence matches:
0
max
Exclude subsequence matches from current sequence:
Overlap of subsequence allowed:
40
%
Clear Query
Start
Statistics
Statistics will display when a query has been made
Data Visualizer
Sequence matches will display when a query has been made
Legend
Data Viewer
Sequence match data will display when a query has been made
Back
Save Resullts


BrainEx | Find Similar Sequences
Load Dataset
Explore Data
Find Similar Sequences
Query Parameters
Current Sequence from Upload
Data Visualizer
Legend
Save Subsequence selection
This PC › Documents › subsequence_folder
Search subsequence_folder
Organize
New folder
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
PLA Drive
Videos
Windows (C:)
Network
Name
Status
Date modified
Type
Size
sample_subsequence
12/8/2019 5:02 PM
Text Document
0 KB
Number of best sequence matches:
Length of interest of sequence matches:
Exclude subsequence matches from current sequence:
Overlap of subsequence allowed:
40
Clear Query
Start Que
File name: sample_subsequence
All Files
Tools
Open
Cancel
Statistics
Statistics will display when a query has been made
Back
Save Resullts

BrainEx | Find Similar Sequences

Load Dataset | Explore Data | Find Similar Sequences

Query Parameters

Current Sequence from Upload

Select from upload

Number of best sequence matches: 10

Length of interest of sequence matches: 0 — max

Exclude subsequence matches from current sequence: ☐

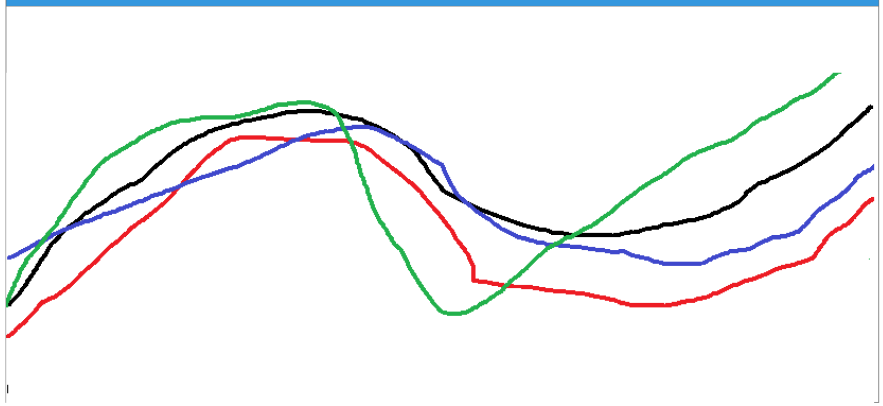
Overlap of subsequence allowed: 40 %

Clear Query | Start Query

Statistics

Number of returned best matches: 10
Mean Similarity: 75%
Standard Deviation of Similarity: .8
Mean Overlap: 25%
Mean Length: 399

Data Visualizer



Legend

Query
Rank 1
Rank 2
Rank 3

Data Viewer

| Rank | Subject ID | Event Name | Channel Name | Start Time | End Time | Similarity | Overlap |
|---|---|---|---|---|---|---|---|
| Query | SubjectID4 | target correct | Channel 1 | 711800 | 712457 | ---------- | ---------- |
| 1 | 75692 | target correct | Channel 2 | 264102 | 272541 | 98% | 28% |
| 2 | 14502 | target incorrect | Channel 3 | 820640 | 825503 | 95% | 28% |
| 3 | 91810 | target incorrect | Channel 4 | 667590 | 675114 | 85% | 39% |
| 4 | 14336 | target incorrect | Channel 5 | 603408 | 607396 | 75% | 13% |
| 5 | 42622 | target incorrect | Channel 6 | 772165 | 773515 | 74% | 37% |
| 6 | 76075 | target correct | Channel 7 | 29971 | 37295 | 71% | 34% |
| 7 | 13644 | target correct | Channel 8 | 271711 | 275177 | 70% | 45% |
| 8 | 91697 | target correct | Channel 9 | 132572 | 142004 | 65% | 35% |
| 9 | 40210 | target incorrect | Channel 10 | 439123 | 447593 | 64% | 20% |
| 10 | 26592 | target correct | Channel 11 | 677039 | 680867 | 60% | 31% |

Back

Save Resullts

# BrainEx

Version 1.0.0

## Preprocessing Progress

Need Help?

Preprocessing in Progress...

Working dataset: Dataset6.csv

Cancel Preprocessing

Explore Raw Data while Preprocessing

# BrainEx
Version 1.0.0

## Preprocessing Progress

Need Help?

Preprocessing stage is complete!
Sequences Preprocessed: 20065/20065

Restart with Another Dataset

Explore Loaded Data

Find Similar Sequences

Working dataset: Dataset6.csv

Number of Dataset Headers: 5

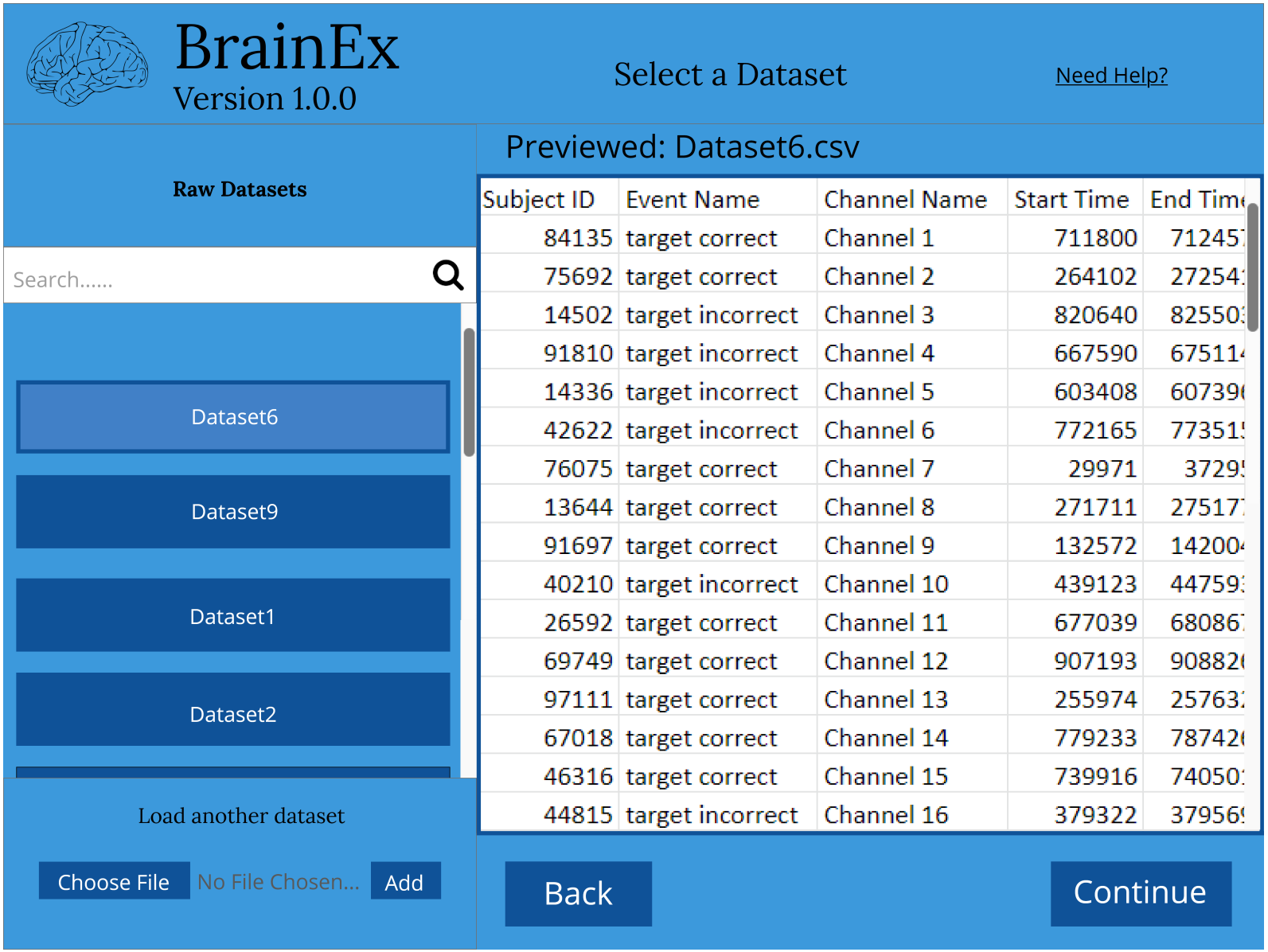
Distance Type: Warped Euclidean

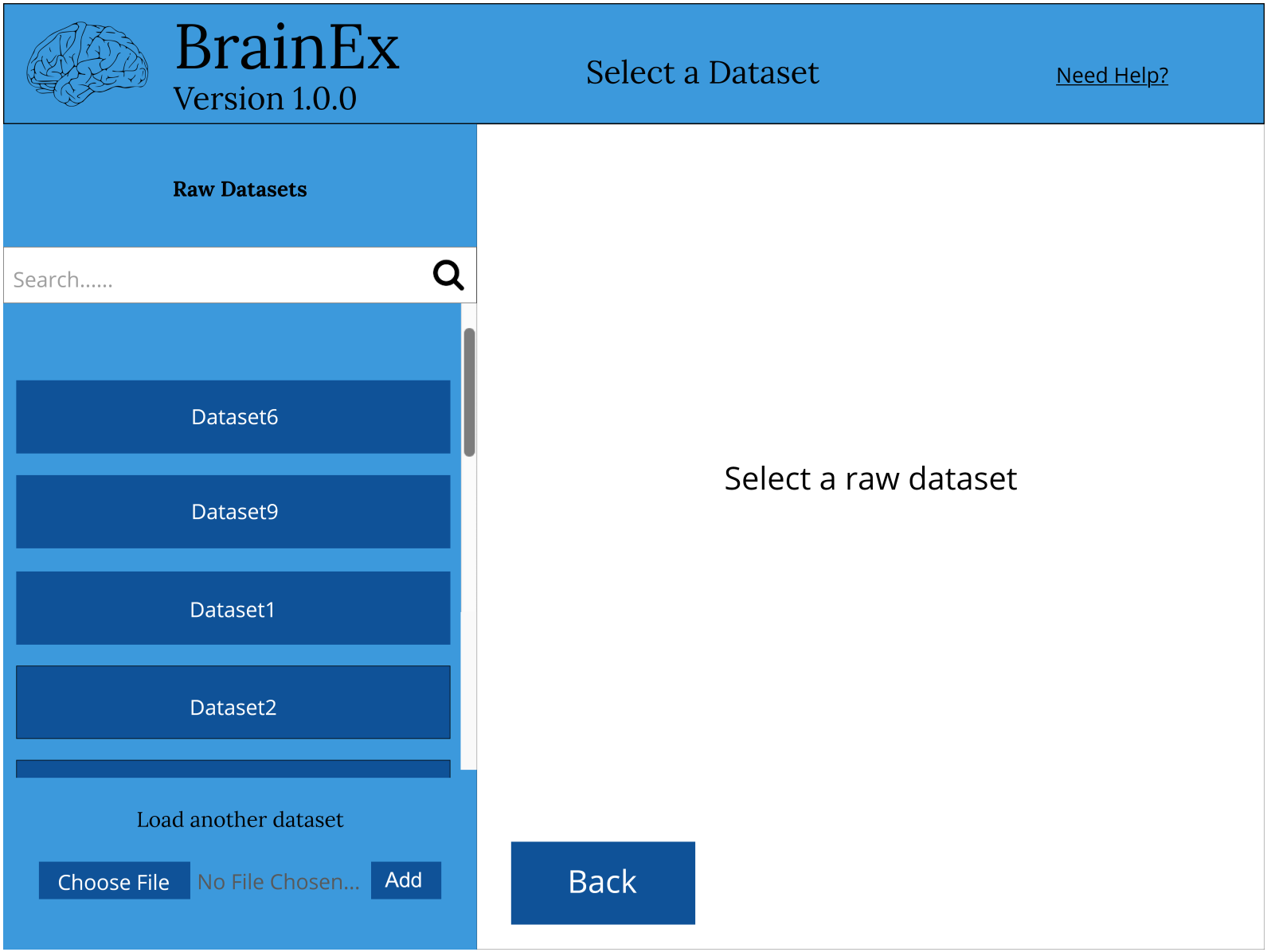
Similarity 5 %

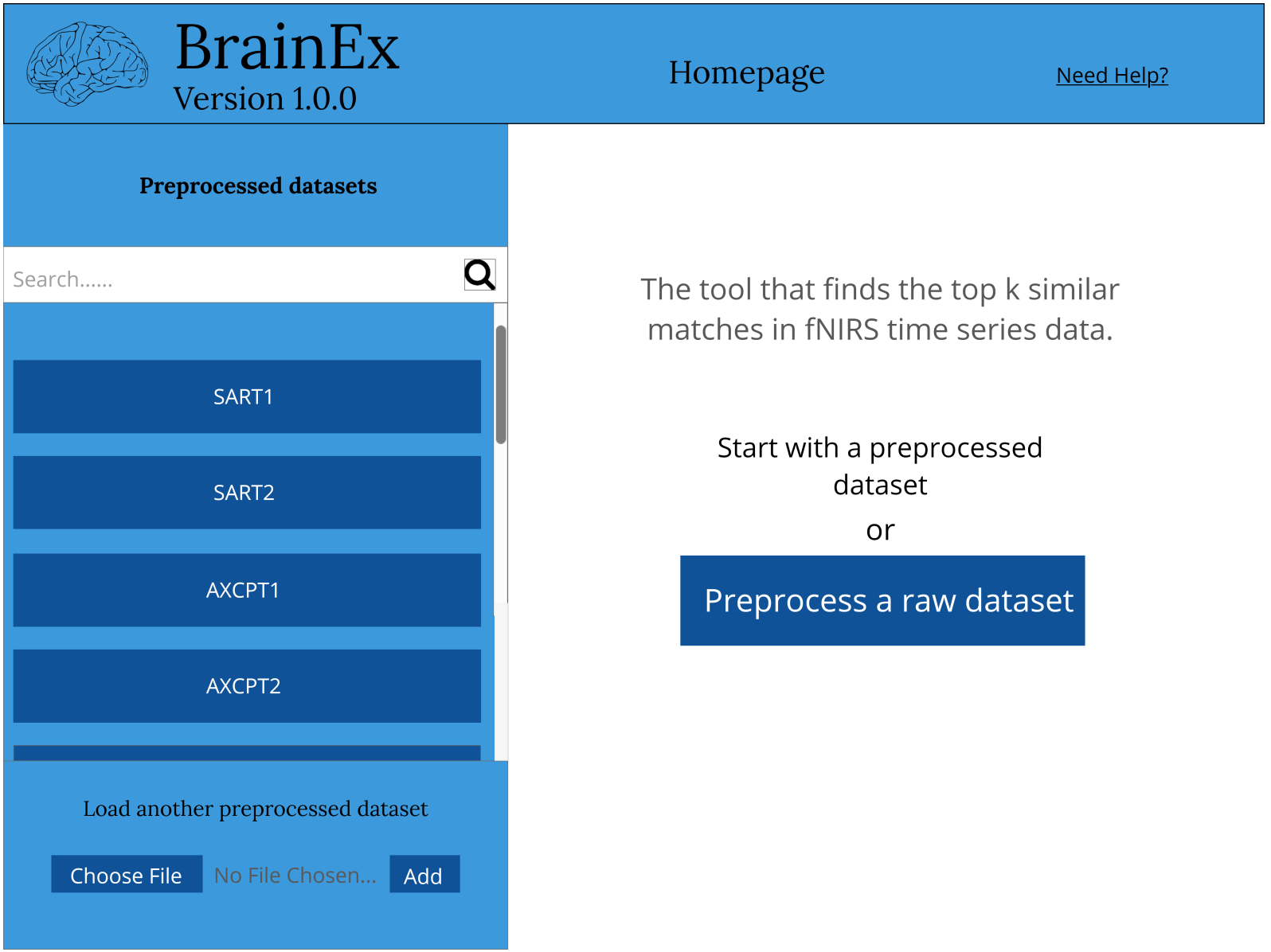
Time-series Length of Interest: 0 max

Back

Start Preprocessing


BrainEx
Version 1.0.0
Select a Dataset
Need Help?
Raw Datasets
Search.....
Dataset6
Dataset9
Dataset1
Dataset2
Load another dataset
Choose File
No File Chosen...
Add
Previewed: Dataset6.csv
Subject ID Event Name Channel Name Start Time End Time
84135 target correct Channel 1 711800
75692 target correct Channel 2 264102
14502 target incorrect Channel 3 820640
91810 target incorrect Channel 4 667590
14336 target incorrect Channel 5 603408
42622 target incorrect Channel 6 772165
76075 target correct Channel 7 29971
13644 target correct Channel 8 271711
91697 target correct Channel 9 132572
40210 target incorrect Channel 10 439123
26592 target correct Channel 11 677039
69749 target correct Channel 12 907193
97111 target correct Channel 13 255974
67018 target correct Channel 14 779233
46316 target correct Channel 15 739916
44815 target incorrect Channel 16 379322
Back
Continue


BrainEx
Version 1.0.0
Select a Dataset
Need Help?
Raw Datasets
Search.....
Dataset6
Dataset9
Dataset1
Dataset2
Load another dataset
Choose File
No File Chosen...
Add
Select a raw dataset
Back


BrainEx
Version 1.0.0
Homepage
Need Help?
Preprocessed datasets
Search.....
SART1
SART2
AXCPT1
AXCPT2
Load another preprocessed dataset
Choose File
No File Chosen...
Add
The tool that finds the top k similar matches in fNIRS time series data.
Start with a preprocessed dataset
or
Preprocess a raw dataset