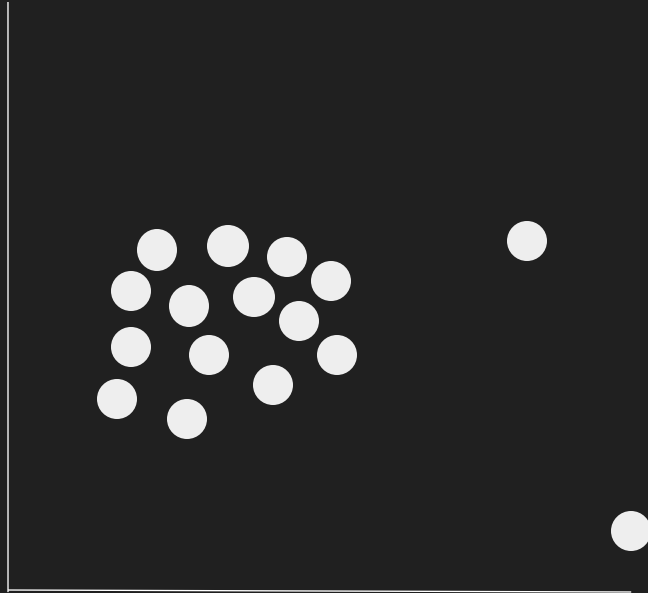


Outlr.

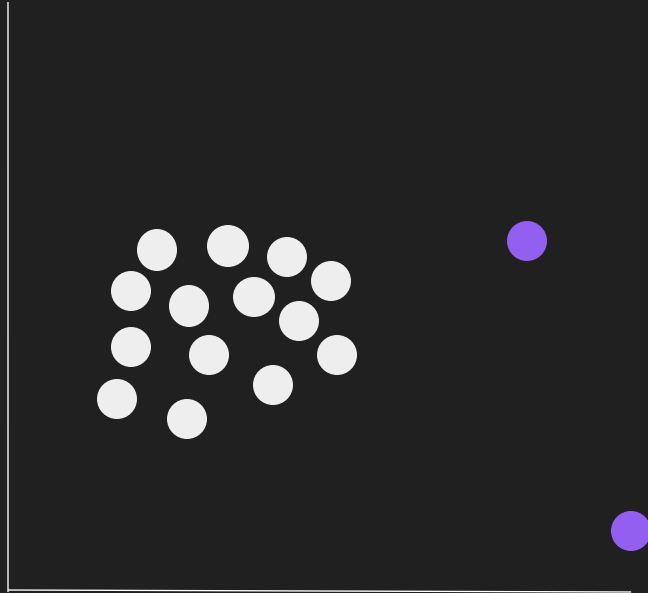
Benjamin Hümann, Salma Hummel, Simeon Schrage, Erik Wu, Udo Zucker
A web application for analyzing subspace outliers on high dimensional datasets

Outlier



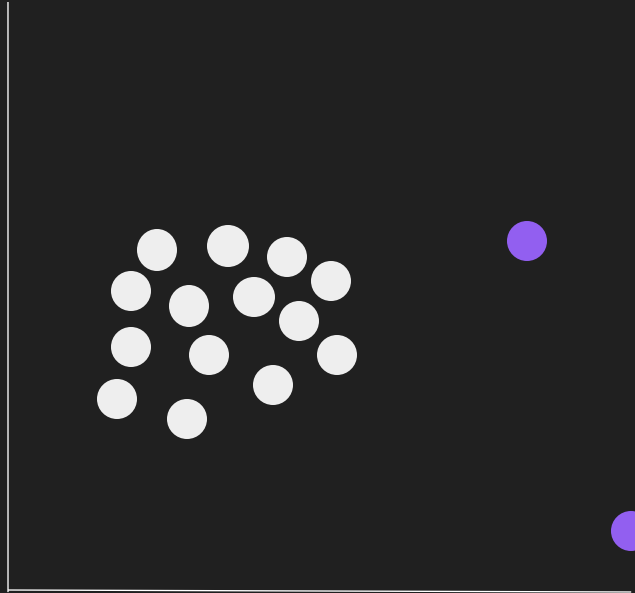
data point that differs significantly from
other data points

Outlier



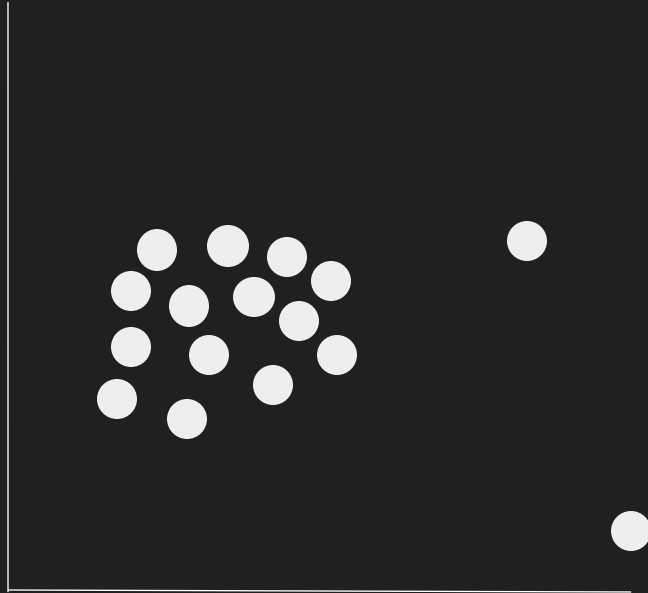
data point that differs significantly from
other data points

Why Outlier Detection ?



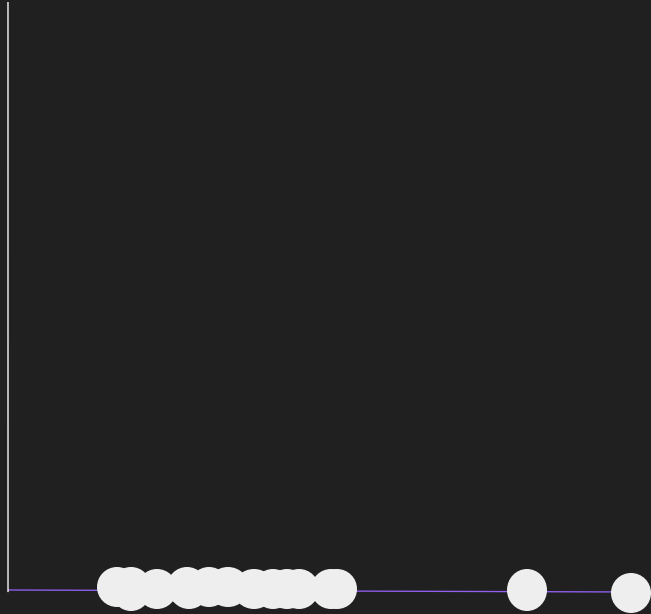
- outliers degrade machine learning methods
- analyze big data
- can be interpreted as errors or interesting data

Subspace Outliers



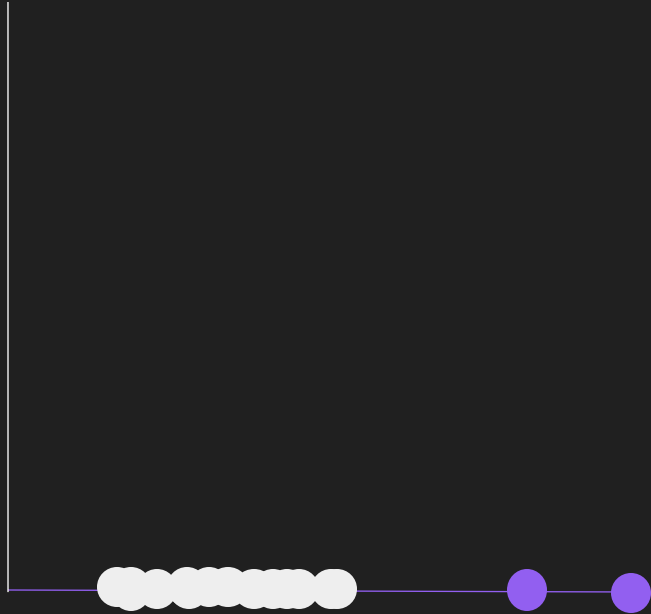
data points which are outliers in certain subspaces

Subspace Outliers



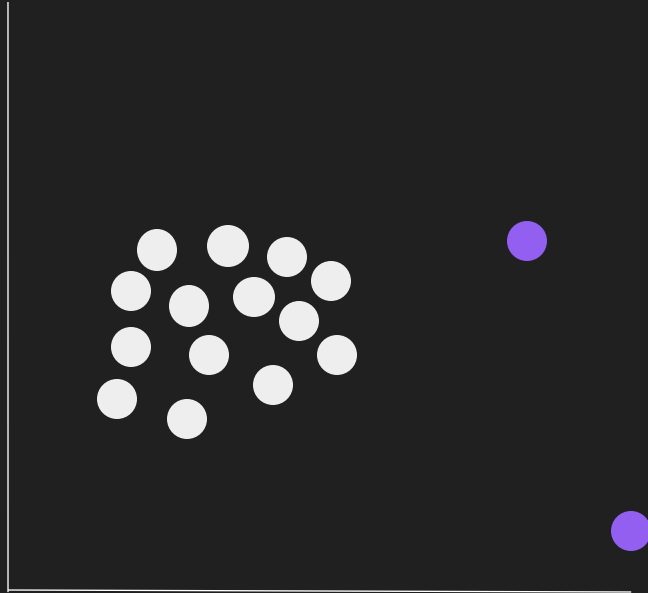
data points which are outliers in certain subspaces

Subspace Outliers



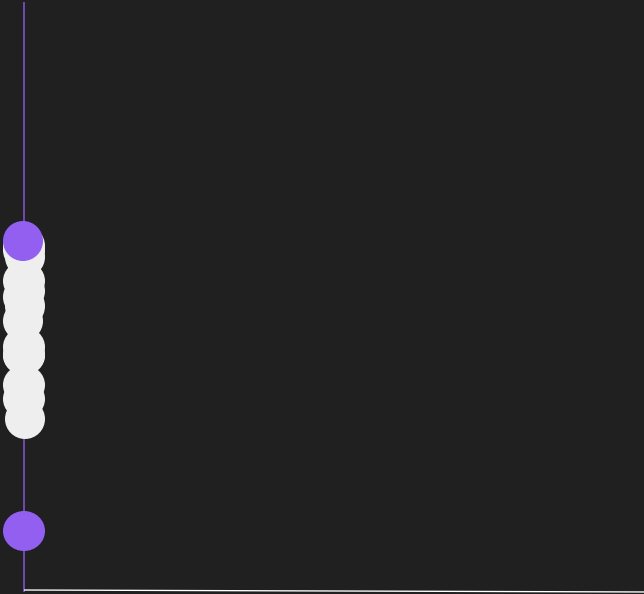
data points which are outliers in certain subspaces

Subspace Outliers



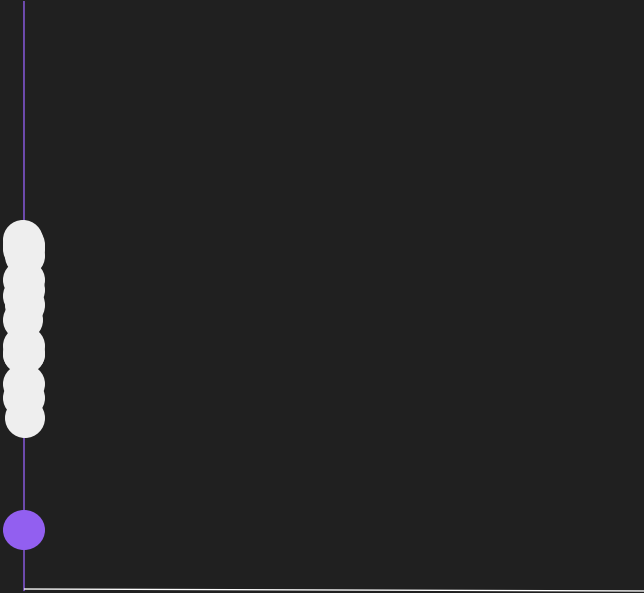
data points which are outliers in certain subspaces

Subspace Outliers



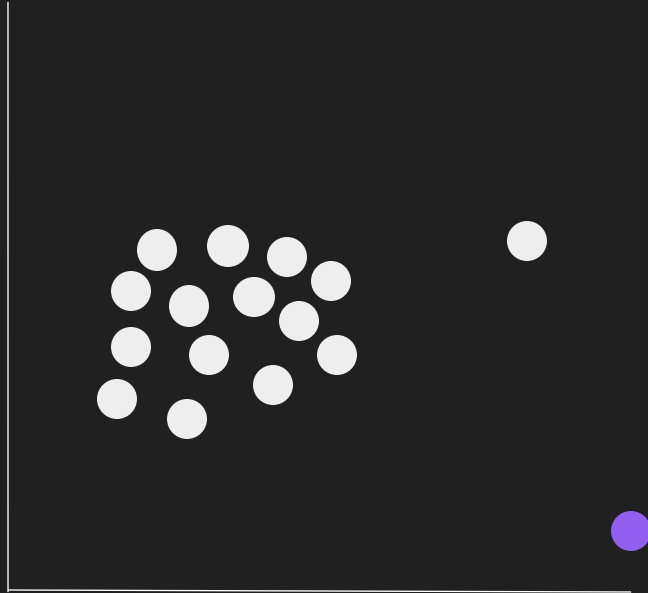
data points which are outliers in certain subspaces

Subspace Outliers



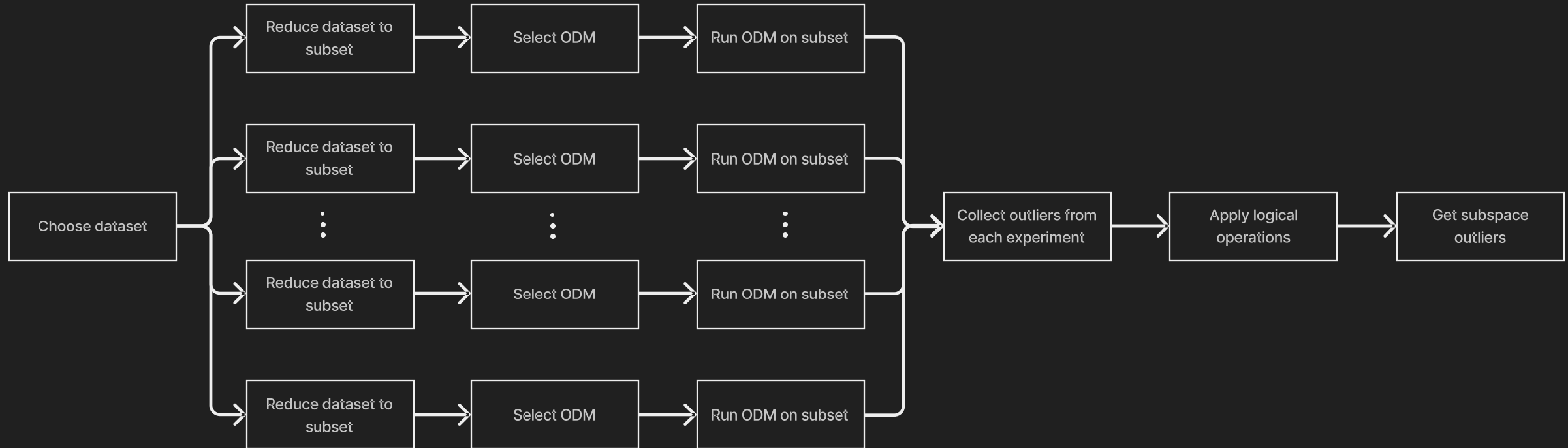
data points which are outliers in certain subspaces

Subspace Outliers

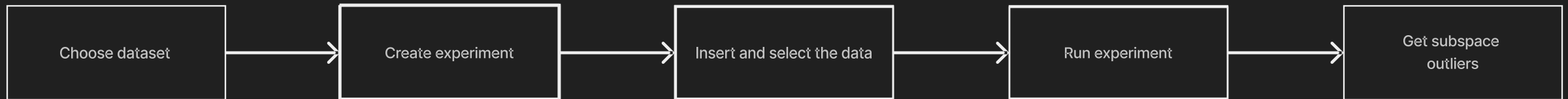


data points which are outliers in certain subspaces

Problem



Solution



Outlr.

Effective subspace outlier analysis

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Effective subspace outlier analysis

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Email



Username



Password



Re-enter Password



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Underleaver

Account
Log out ↗



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Experiment #378

Dataset

Upload a CSV file



Ground-truth

Upload a CSV file



Outlier Detection Method

Select ODM



ODM Parameters

Select an ODM to customize hyperparameters

Subspace logic



[0, 1] and [2, 3]

Run experiment

Experiment #378



Dataset

Upload a CSV file



Ground-truth

Upload a CSV file



Outlr

Select

ODM

Select

Experiment #378



Dataset

Optional name

dataset1.csv



Ground-truth

Upload a CSV file



Preview

Summary

Identifier

Column 1

Column 2

Column 3

Column 3

Column 3

Out

Sel

ODM

Sel

Experiment #378



Dataset

dataset1.csv



Ground-truth

ground-truth.csv



Preview

Summary

Identifier

Column 1

Column 2

Column 3

Column 3

Column 3

Experiment #378

Dataset

Optional name

dataset1.csv



Ground-truth

ground-truth.csv



Preview

Summary

Identifier	Column 1	Column 2	Column 3	Column 3	Column 3
0	0	5017	198746	436566	344
1	1	2745	987234	3403	66135
2	1	358683	13024	304	3761
3	1	25627	43022	44024	7
4	0	8432	344211	6788	13416
5	0	6048	8774547	340568	1234
6	0	5950	56354	23	136778
7	0	29092	554888	1	6597
8	1	15010	99987	266777	46874

Outlier Detection Method

Select ODM



ODM Parameters

Select an ODM to customize hyperparameters

Subspace logic



[0, 1] and [2, 3]

Run experiment

Outlier Detection Method

Select ODM



ODM Parameters

Select an ODM to customize hyperparameters

Outlier Detection Method

LUNAR



ODM Parameters

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

mn 3

4

35

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7

16

34

778

97

374

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

Subspace logic



[0, 1] and [2, 3]

Run experiment

mn 3

4

35

61

7

16

34

778

97

374

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

Subspace logic



[0, 1, 2, 3, 4] and [4, 5, 6, 7]

Run experiment

mn 3

4

35

61

7

16

34

778

97

374

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

Subspace logic



[0 .. 4] and [4 .. 7]

Run experiment

mn 3

4

35

61

7

16

34

778

97

374

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

Subspace logic



`([0 .. 4] and [4 .. 7]) or [8, 9, 10, 11, 12, 13] or
([1, 2, 3, 5, 8, 13, 21, 34] and [1, 2, 4, 8, 16, 32] and [10 .. 13])`

Run experiment

Experiment #378

Dataset

Optional name

dataset1.csv

Ground-truth

ground-truth.csv

Preview

Summary

Identifier	Column 1	Column 2	Column 3	Column 3	Column 3
0	0	5017	198746	436566	344
1	1	2745	987234	3403	66135
2	1	358683	13024	304	3761
3	1	25627	43022	44024	7
4	0	8432	344211	6788	13416
5	0	6048	8774547	340568	1234
6	0	5950	56354	23	136778
7	0	29092	554888	1	6597
8	1	15010	99987	266777	46874

Outlier Detection Method

LUNAR

ODM Parameters

model type

neighbours

sampling

val size

scaler

epsilon

proportion

epochs

lr

wd

verbose

Subspace logic

([0 .. 4] and [4 .. 7]) or [8, 9, 10, 11, 12, 13] or
([1, 2, 3, 5, 8, 13, 21, 34] and [1, 2, 4, 8, 16, 32] and [10 .. 13])

Run experiment

Experiment #378

Dataset

Optional name

dataset1.csv

Ground-truth

ground-truth.csv

Preview

Summary

Identifier	Column 1	Column 2	Column 3	Column 3	Column 3
0	0	5017	198746	436566	344
1	1	2745	987234	3403	66135
2	1	358683	13024	304	3761
3	1	25627	43022	44024	7
4	0	8432	344211	6788	13416
5	0	6048	8774547	340568	1234
6	0	5950	56354	23	136778
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Run experiment

Experiment #378

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dataset1.csv



Ground-truth

ground-truth.csv



Preview

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Outlier Detection Method

LUNAR



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model type

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Subspace logic



([0 .. 4] and [4 .. 7]) or [8, 9, 10, 11, 12, 13] or
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Run experiment

Summary

ODM:LUNAR

Accuracy:98.643 %

Execution date:20:36:42 23/11/2022

Execution time:3d 4m 11.25s

Number of detected outliers:735



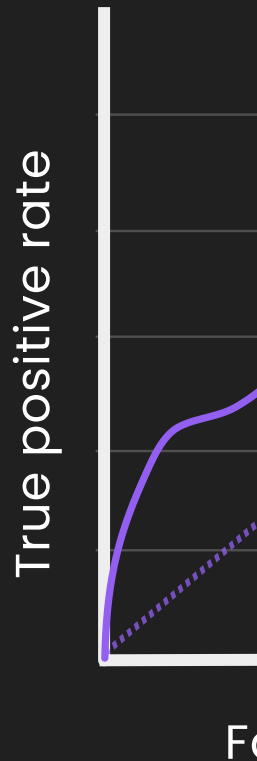
Download CSV

Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Experiment #378

Summary

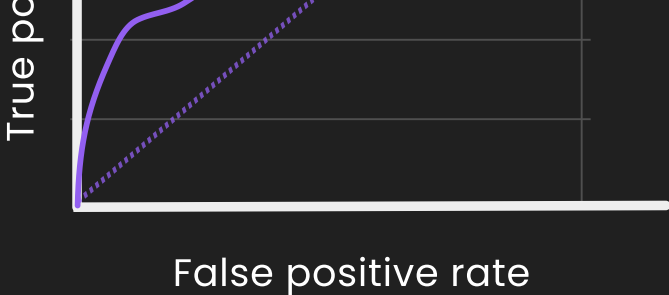
ODM:	LUNAR
Accuracy:	98.643 %
Execution date:	20:36:42 23/11/2022
Execution time:	3d 4m 11.25s
Number of detected outliers:	735



Execution date:20:36:42 23/11/2022


Execution time:3d 4m 11.25s

Number of detected outliers:735



Download CSV

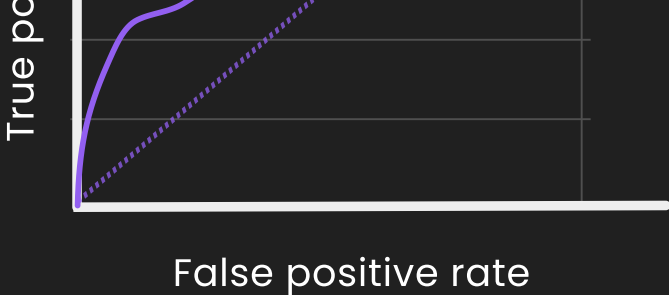


Identifier	Results 	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Execution date:20:36:42 23/11/2022

Execution time:3d 4m 11.25s

Number of detected outliers:735



Download CSV

Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Execution date:20:36:42 23/11/2022

Execution time:3d 4m 11.25s

Number of detected outliers:735



Download CSV

Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Execution date:

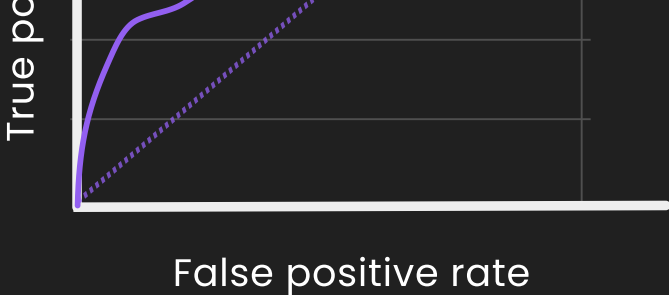
20:36:42 23/11/2022

Execution time:

3d 4m 11.25s

Number of detected outliers:

735



Download CSV

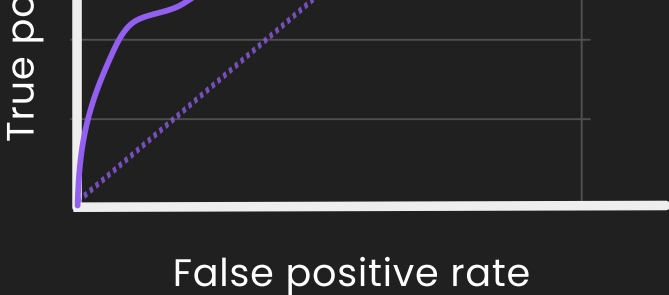


Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Execution date:20:36:42 23/11/2022

Execution time:3d 4m 11.25s

Number of detected outliers:735



Download CSV

Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

Summary

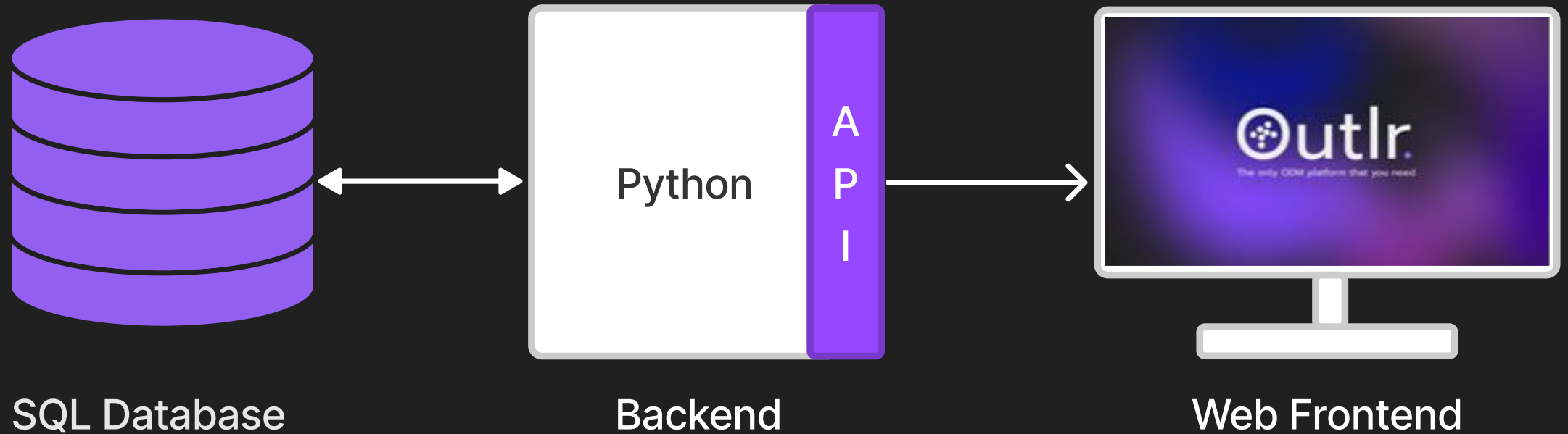
ODM: LUNAR
Accuracy: 98.643 %
Execution date: 20:36:42 23/11/2022
Execution time: 3d 4m 11.25s
Number of detected outliers: 735



Download CSV

Identifier	Results	Supspace 2	Subspace 3	Subspace 4	Subspace 5	Subspace 6
32	x	x	x	x		
66	x	x	x		x	
76	x	x	x		x	
267			x		x	
420	x	x	x			
999	x		x			
1234		x	x			x
2048			x			x
2222	x	x	x			x

System Architecture



Any Questions ?

