

Eye-Tracking Data Preprocessing & Recommendations

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Frage 1_001_Anonymous 09-05-23 12h04m.csv 1.6MB



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Data Preview

	Timestamp	EventSource	SlideEvent	StimType	Duration	CollectionPhase	SourceStimuliName	EventSource.1	CPU Sys	Memory Sys	CPU Proc	Memory Proc	EventSource.2	ET
0	30.9133	1	StartSlide	TestImage	90,000	StimuliDisplay	Frage 1	None	None	None	None	None	None	
1	32.508	None	None	None	None	None	Frage 1	None	None	None	None	None	1	
2	49.1635	None	None	None	None	None	Frage 1	None	None	None	None	None	1	
3	65.8267	None	None	None	None	None	Frage 1	None	None	None	None	None	1	
4	82.474	None	None	None	None	None	Frage 1	None	None	None	None	None	1	

Select Features to Analyze

Choose numerical features

Gaze X ×Gaze Y ×

Select Feature for Preview

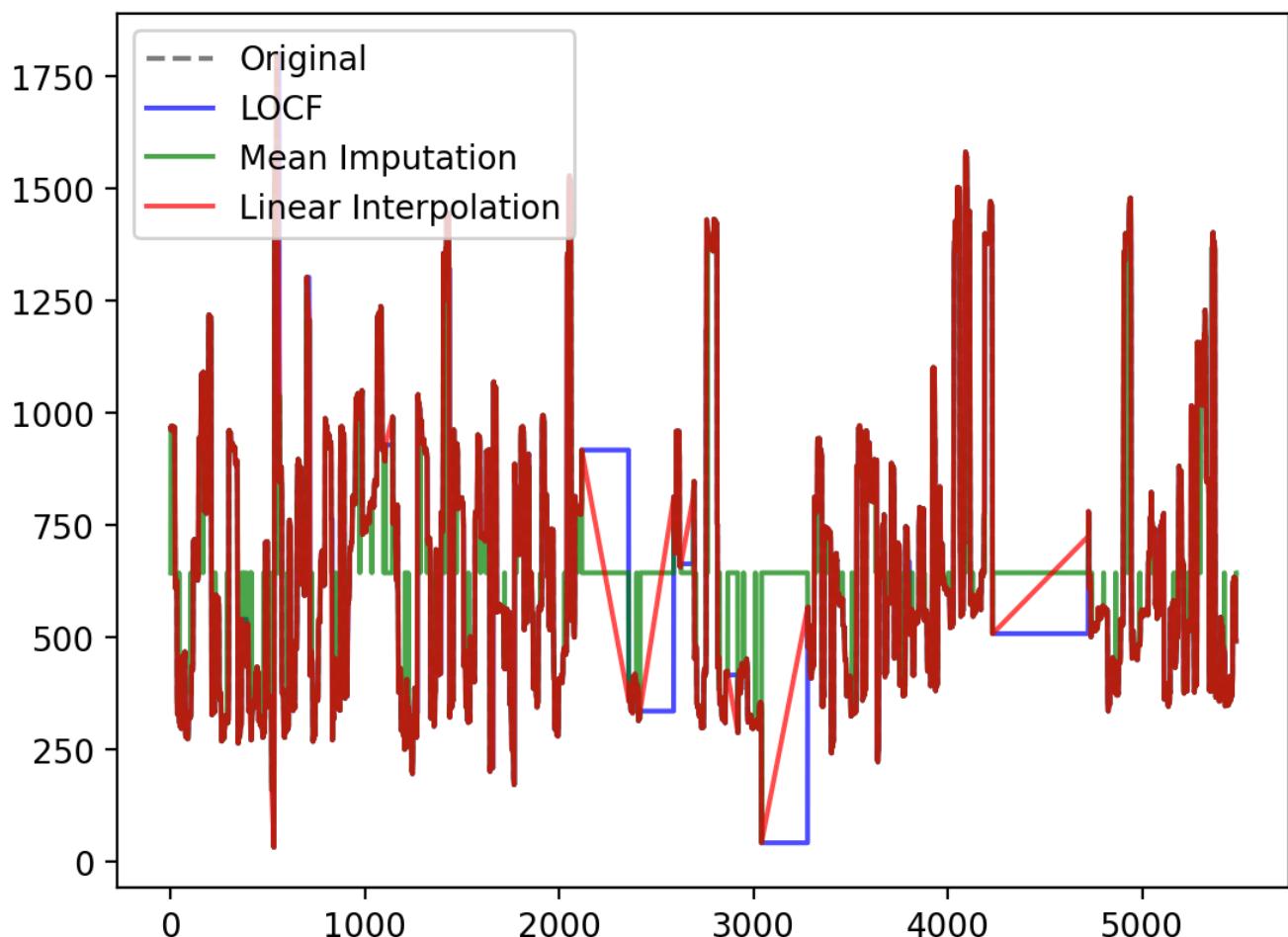
Gaze X



Select Missing Value Methods to Compare

LOCF ×Mean Imputation ×Linear Interpolat... ×

Missing Value Strategy Preview



Apply this MV method for next steps

KNN Imputation

Recommendation:

Missing Values: High missingness – consider feature removal

👉 Preview: Outlier Detection

Select Outlier Methods to Compare

IQR × Winsorization × MAD ×

Apply this Outlier Method

Z-Score

Z-Score threshold

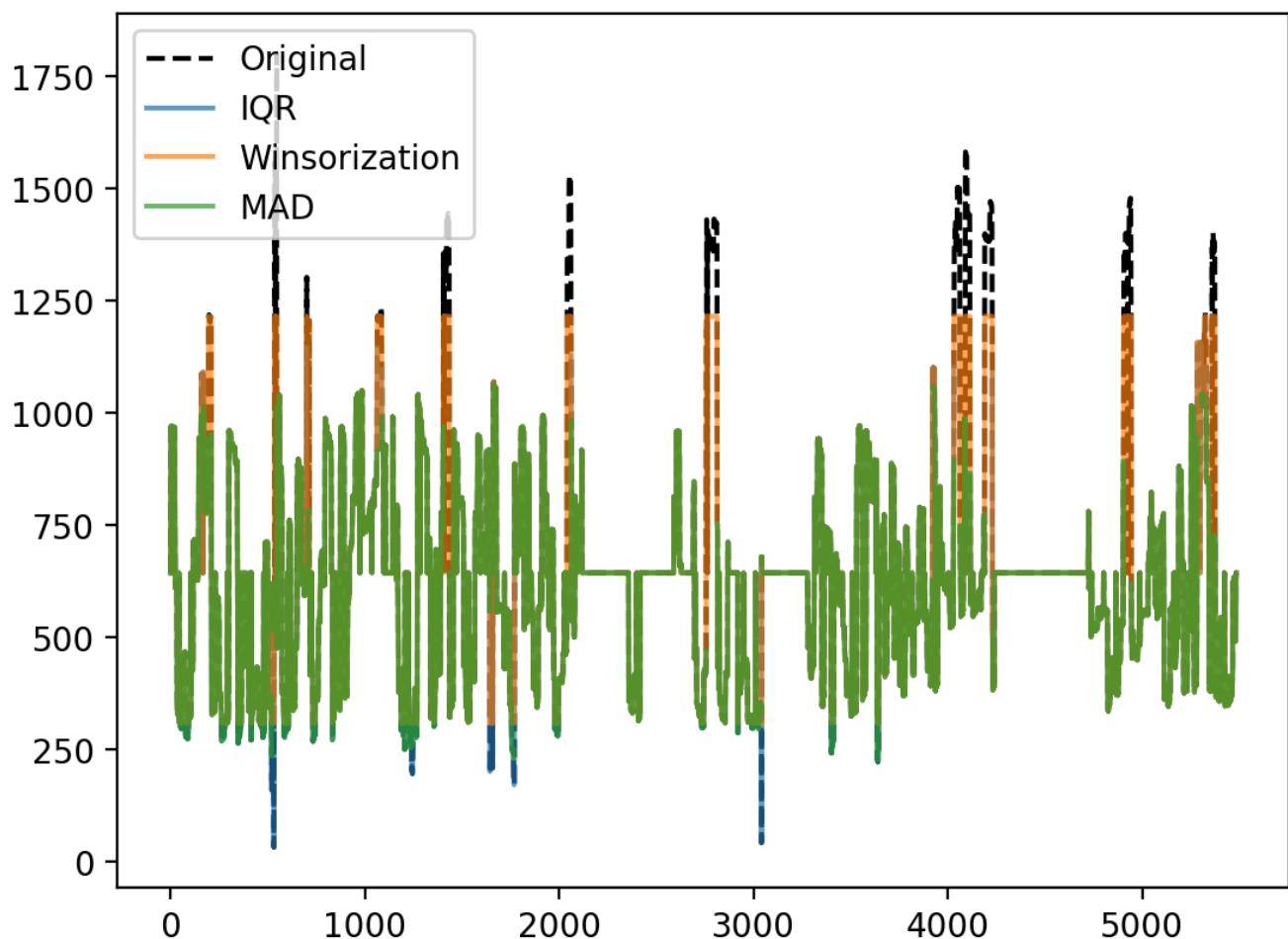
1.00 5.00

3.00

Isolation Forest contamination

0.01 0.50

0.10



Preview: Normalization

Manual Y-Axis Zoom

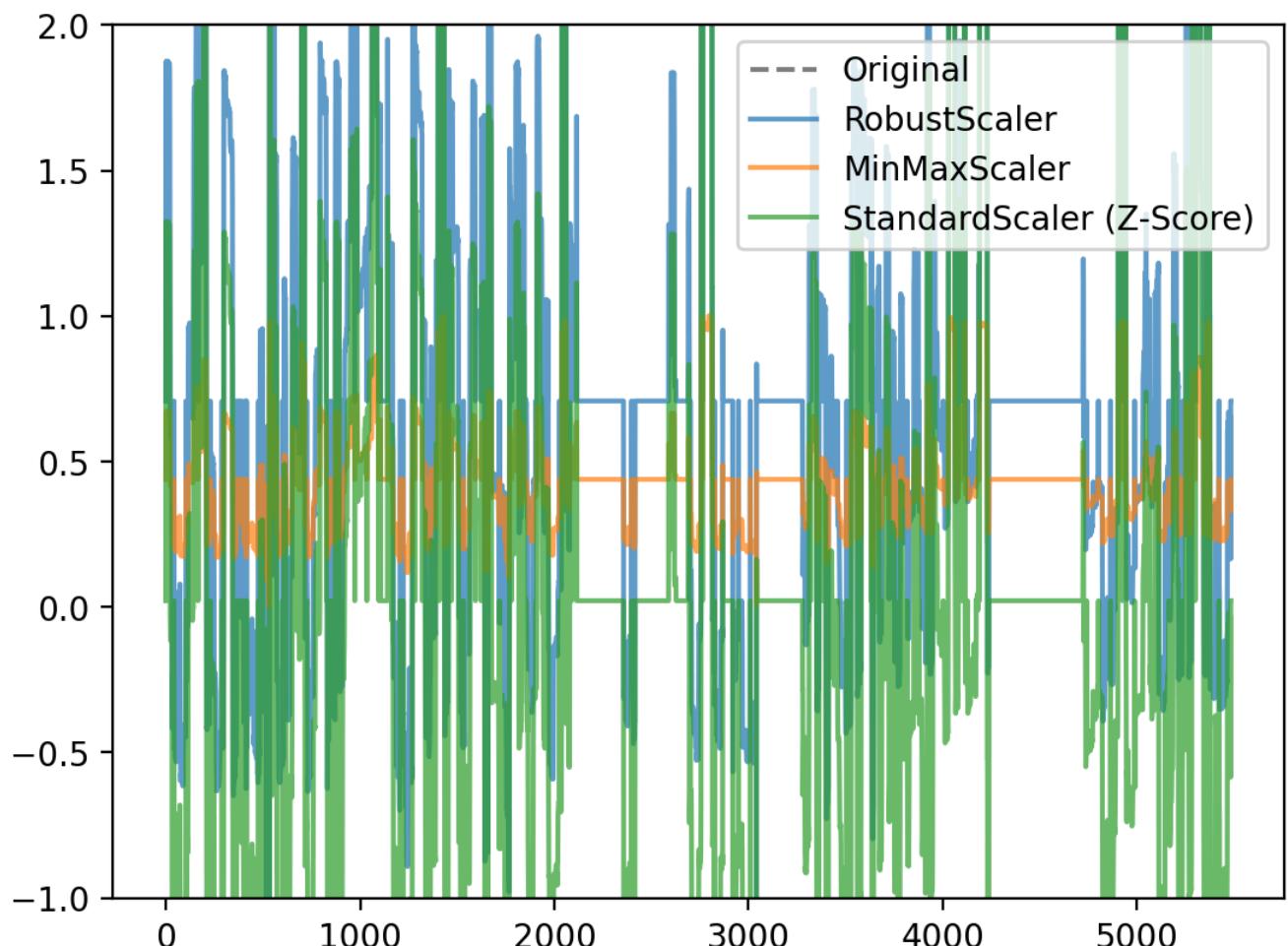
Y-Axis Min (optional)
-1,00 - +

Y-Axis Max (optional)
2,00 - +

Use custom Y-axis range

Select normalization methods to preview

RobustScaler x MinMaxScaler x StandardScaler (... x) x v



Apply this Normalization Method

RobustScaler

▼

Optional Post-Normalization Steps

Apply manual feature limits

Lower limit

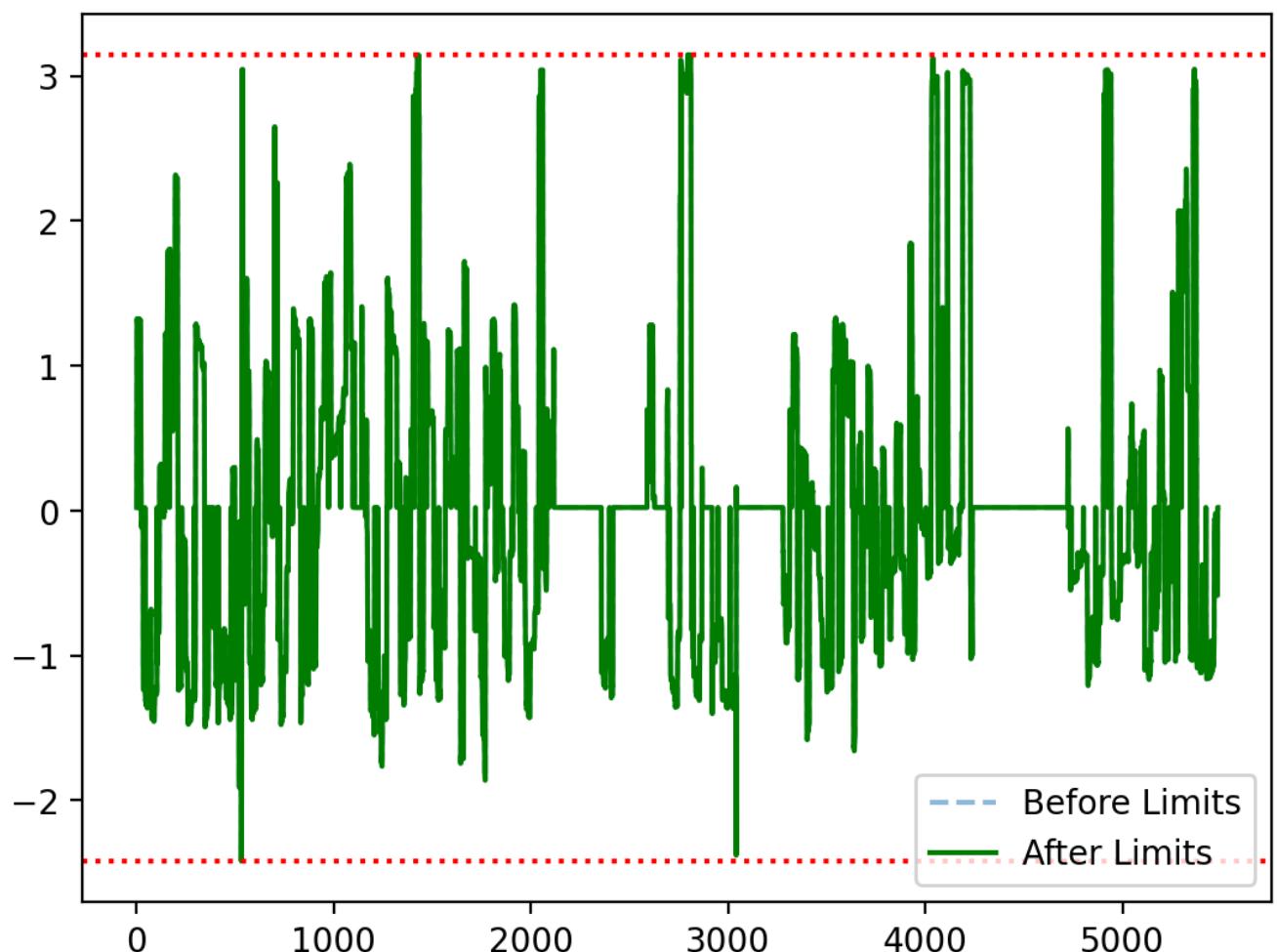
-2,42

- +

Upper limit

3,15

- +



Apply Butterworth low-pass filter

Cutoff Frequency

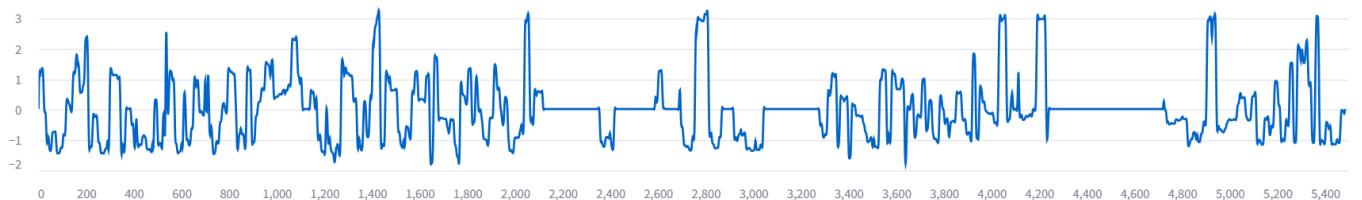
0.01 0.50

Sampling Frequency (Hz)

1,00 - +

Filter Order

1 10



Apply Fourier Smoothing

Max frequency to keep (Hz)

0.01 0.50



[Show Final Comparison](#)

Summary Statistics Before vs After

	Metric	Before	After
0	Mean	643.4557	0.6889
1	Std	305.1007	0.8959
2	Missing %	26.9147	0.0000
3	Outlier Removed %	0.0000	-25.2918

Final Data Preview

	Row	Timestamp	EventSource	SlideEvent	StimType	Duration	CollectionPhase	SourceStimuliName	EventSource.1	CPU Sys	Memory Sys	CPU Proc	Memory Proc	EventSourc
0	1	30.9133	1	StartSlide	TestImage	90,000	StimuliDisplay	Frage 1	None	None	None	None	None	None
1	2	32.508	None	None	None	None	None	Frage 1	None	None	None	None	None	None
2	3	49.1635	None	None	None	None	None	Frage 1	None	None	None	None	None	None
3	4	65.8267	None	None	None	None	None	Frage 1	None	None	None	None	None	None
4	5	82.474	None	None	None	None	None	Frage 1	None	None	None	None	None	None

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