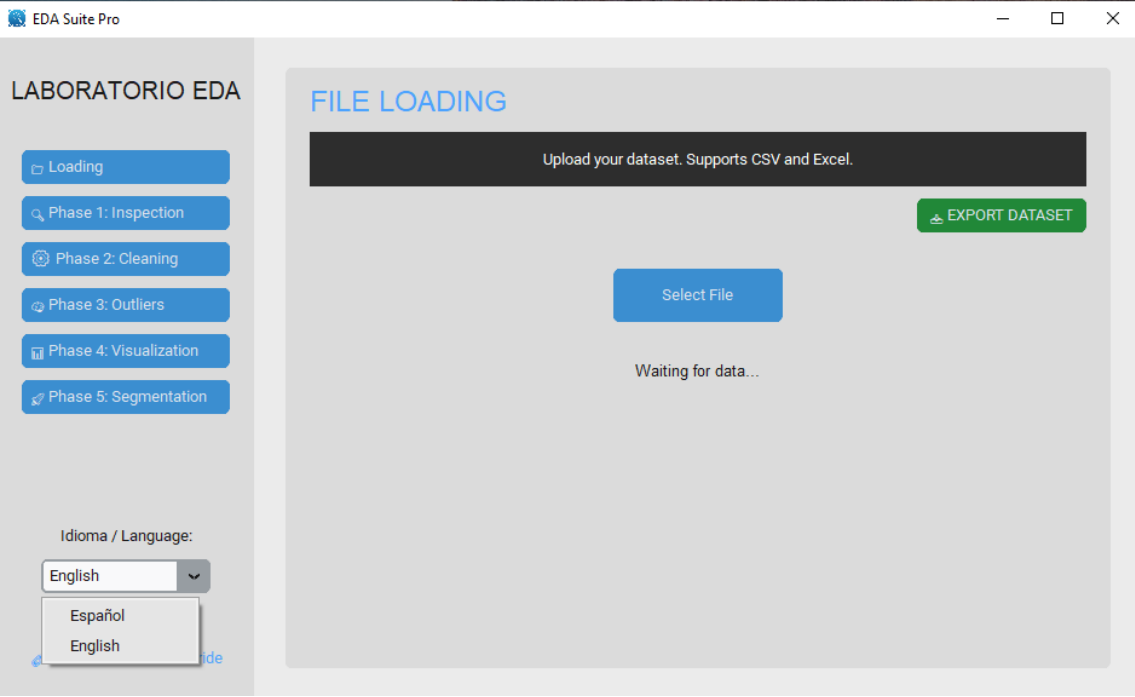


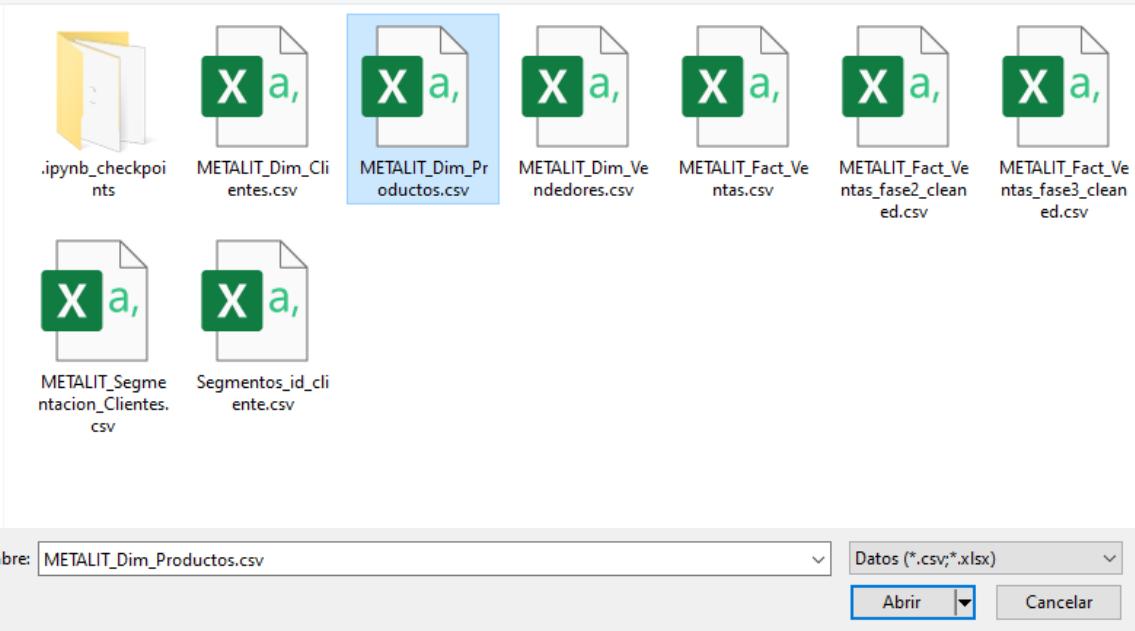
EDA Suite Pro: Operation Manual and Visual User Guide

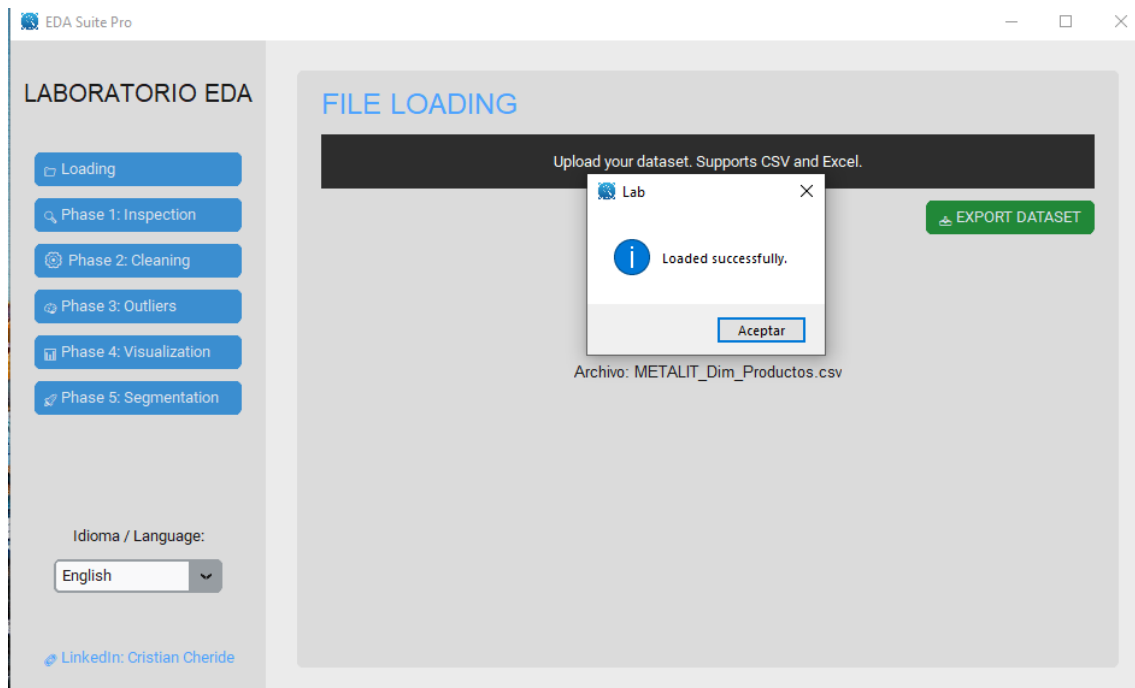
Sidebar and Multilingual "Navigation side panel with active language selector, allowing you to instantly switch the entire interface between Spanish and English."

Phase 0 - Loading Module "Main interface of Phase 0 ready to receive a dataset in CSV or Excel format."

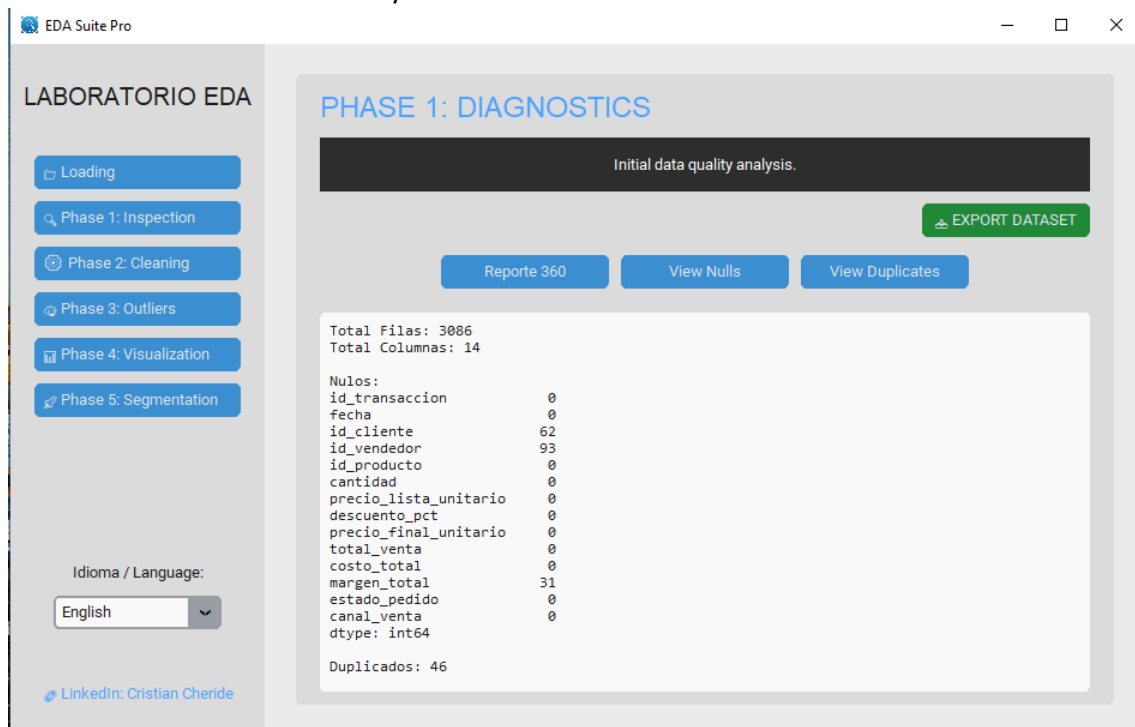


File Selection "System file explorer allowing the user to choose the dataset for analysis."





Phase 1 - Initial Diagnosis (360 Report) "Phase 1 view showing the total count of rows, columns and an overall summary of the dataset's health."



Phase 1 - Null and Duplicate Map "Detailed audit that identifies exactly which columns have missing data and how many rows are repeated."

LABORATORIO EDA

Loading

Phase 1: Inspection

Phase 2: Cleaning

Phase 3: Outliers

Phase 4: Visualization

Phase 5: Segmentation

Idioma / Language:

English

LinkedIn: Cristian Cheride

PHASE 1: DIAGNOSTICS

Initial data quality analysis.

EXPORT DATASET

Reporte 360

View Nulls

View Duplicates

MAPA DE NULOS:

id_cliente62

id_vendedor93

margen_total31

LABORATORIO EDA

Loading

Phase 1: Inspection

Phase 2: Cleaning

Phase 3: Outliers

Phase 4: Visualization

Phase 5: Segmentation

Idioma / Language:

English

LinkedIn: Cristian Cheride

PHASE 1: DIAGNOSTICS

Initial data quality analysis.

EXPORT DATASET

Reporte 360

View Nulls

View Duplicates

	id_transaccion	fecha	id_cliente	id_vendedor	id_producto	cantidad	precio_1
ista_unitario	descuento_pct	precio_final_unitario	total_venta	costo_total	margen_to		
45	estado_pedido	canal_venta					
	12000	52649	2025-10-16	C0012	V009	1004	4
80	Pendiente	Stock	Directo	11263.20	45052.80	33600.0	11452.
77		51403	2024-12-13	C0066	V009	1002	1
	9500000	0.0714	8821700.00	8821700.00	7980000.0	841700.	
00	Entregado	Directo					
164		51070	2024-10-01	C0205	V008	1004	19
	12000	0.0707	11151.60	211880.40	159600.0	52280.	
40	Entregado	Televenta					
188		51439	2024-12-20	C0064	V001	1008	87
	18000	0.1262	15728.40	1368370.80	1017900.0	350470.	
80	Entregado	Televenta					
193		52324	2025-07-25	C0009	V007	1008	128
	18000	0.0737	16673.40	2134195.20	1497600.0	636595.	
20	Pendiente	Stock	Televenta				
231		51139	2024-10-18	C0150	V010	1005	63
	8500	0.1525	7203.75	453836.25	401625.0	52211.	
25	Pendiente	Stock	Televenta				
222		51522	2025-09-10	C0225	V005	1000	1

Phase 2 - Text Normalization "Using the 'UPPER & Strip' tool to clean up white spaces and standardize texts to uppercase in bulk."

EDA Suite Pro

LABORATORIO EDA

- Loading
- Phase 1: Inspection
- Phase 2: Cleaning
- Phase 3: Outliers
- Phase 4: Visualization
- Phase 5: Segmentation

Idioma / Language: English

LinkedIn: Cristian Cheride

PHASE 2: CLEANING

Text normalization and format correction.

EXPORT DATASET

Normalize Duplicates Formulas

UPPER & Strip

0 - id_transaccion

Date Integer Decimal

EDA Suite Pro

LABORATORIO EDA

- Loading
- Phase 1: Inspection
- Phase 2: Cleaning
- Phase 3: Outliers
- Phase 4: Visualization
- Phase 5: Segmentation

Idioma / Language: English

LinkedIn: Cristian Cheride

PHASE 2: CLEANING

Text normalization and format correction.

EXPORT DATASET

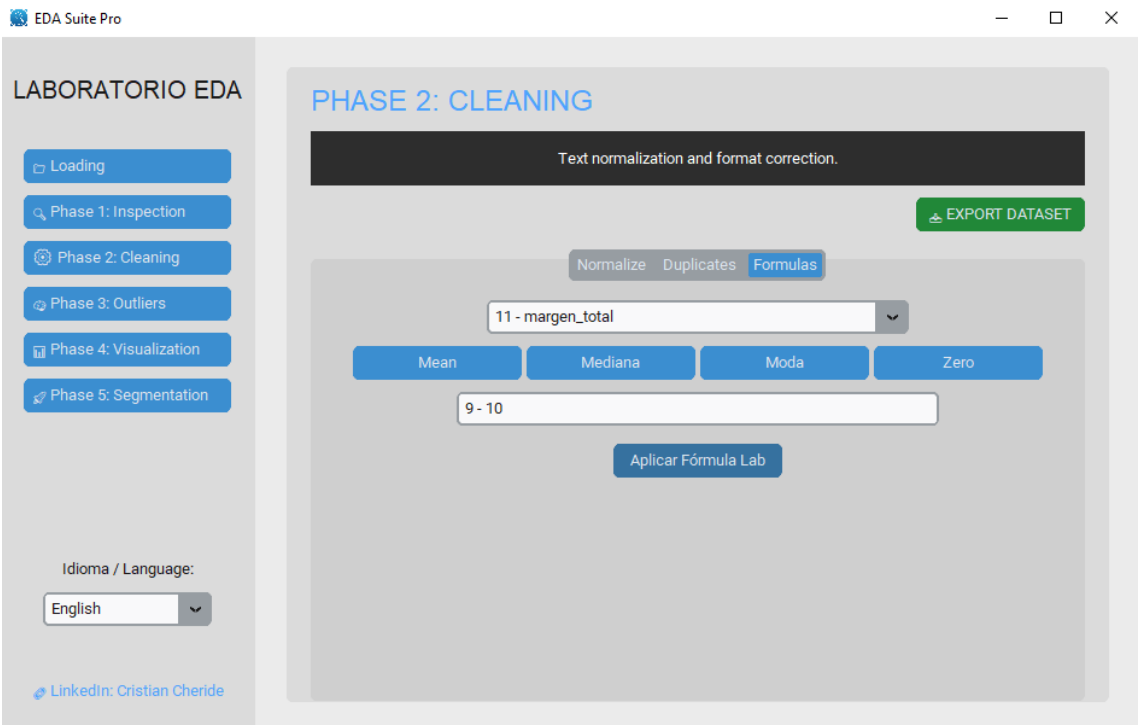
Normalize Duplicates Formulas

0 - id_transaccion

Smart Delete

Phase 2 - Statistical Imputation of Nulls "Selection menu to fill in missing data using methods such as Mean, Median, or Mode."

Phase 2 - Custom Formula Editor "Application of direct mathematical logic to the columns to resolve nulls through specific calculations."



Phase 3 - Global Outlier Scan: "Execution of the automatic diagnostic that analyzes all numerical columns simultaneously for outliers."

Phase 3 - Sensitivity Adjustment (IQR): "Manipulation of the sensitivity slider to define how strict the outlier detection filter (K-factor) will be."

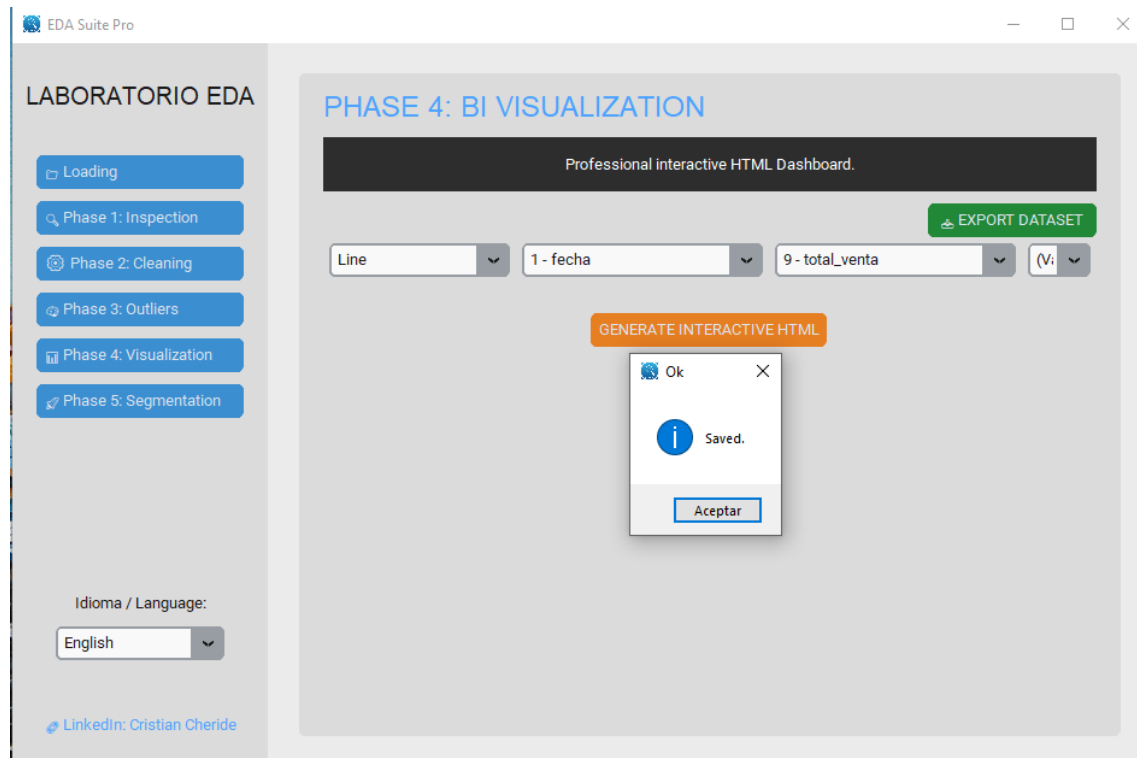
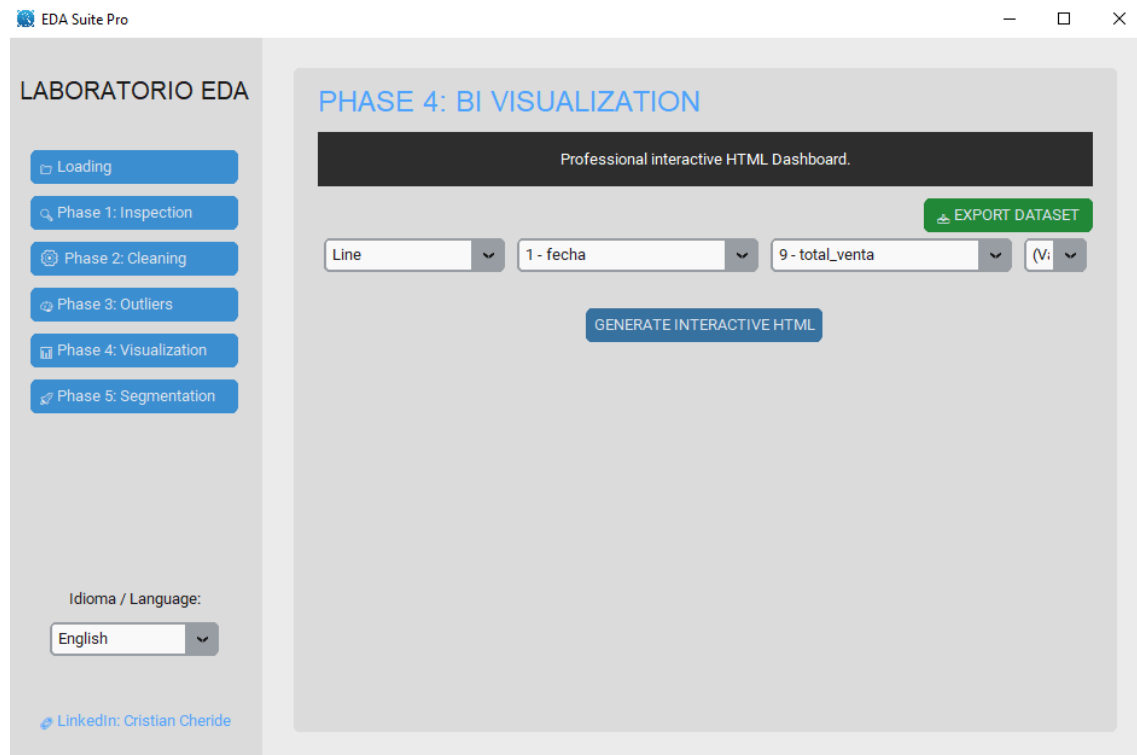
The screenshot shows the 'LABORATORIO EDA' sidebar on the left with a vertical list of phases: Loading, Phase 1: Inspection, Phase 2: Cleaning, Phase 3: Outliers (highlighted), Phase 4: Visualization, and Phase 5: Segmentation. Below the sidebar is a language dropdown set to 'English' and a LinkedIn link for Cristian Cheride. The main panel is titled 'PHASE 3: OUTLIERS (GLOBAL)' and features a dark header 'Massive scan for outliers.' with an 'EXPORT DATASET' button. A slider for 'Sensibilidad (Factor IQR) - Estándar: 1.5' is set to 1.5, with a 'SCAN ALL COLUMNS' button below it. A terminal window displays the following output:

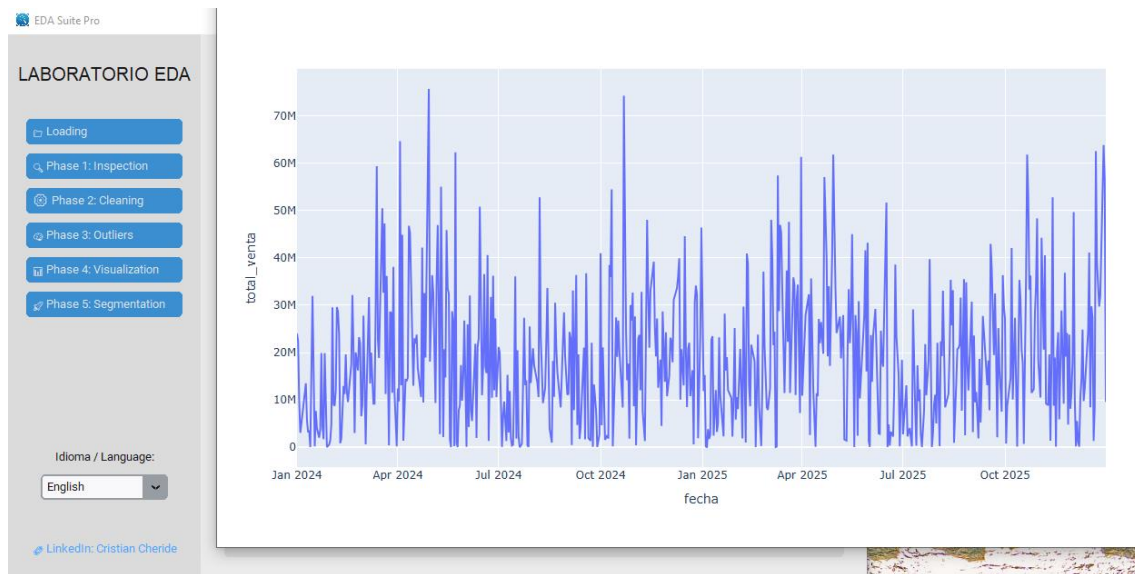
```
--- SCAN (IQR x 1.5) ---  
-> cantidad: 3  
-> descuento_pct: 29  
-> margen_total: 15  
  
TOTAL: 47
```

At the bottom of the main panel are buttons for 'Delete Rows', 'Winsorize', and 'Impute Median'.

This screenshot is identical to the one above, but with a confirmation dialog box overlaid in the center. The dialog has a title bar 'Ok' and a close button 'X'. It contains an information icon, the text 'Applied.', and an 'Aceptar' button. The background interface elements, including the sidebar, main panel, and terminal output, remain visible behind the dialog.

Phase 4 - BI Graphics Configuration "Parameter selector for visualization: choice of axes (X, Y, Z), chart type and color variable."



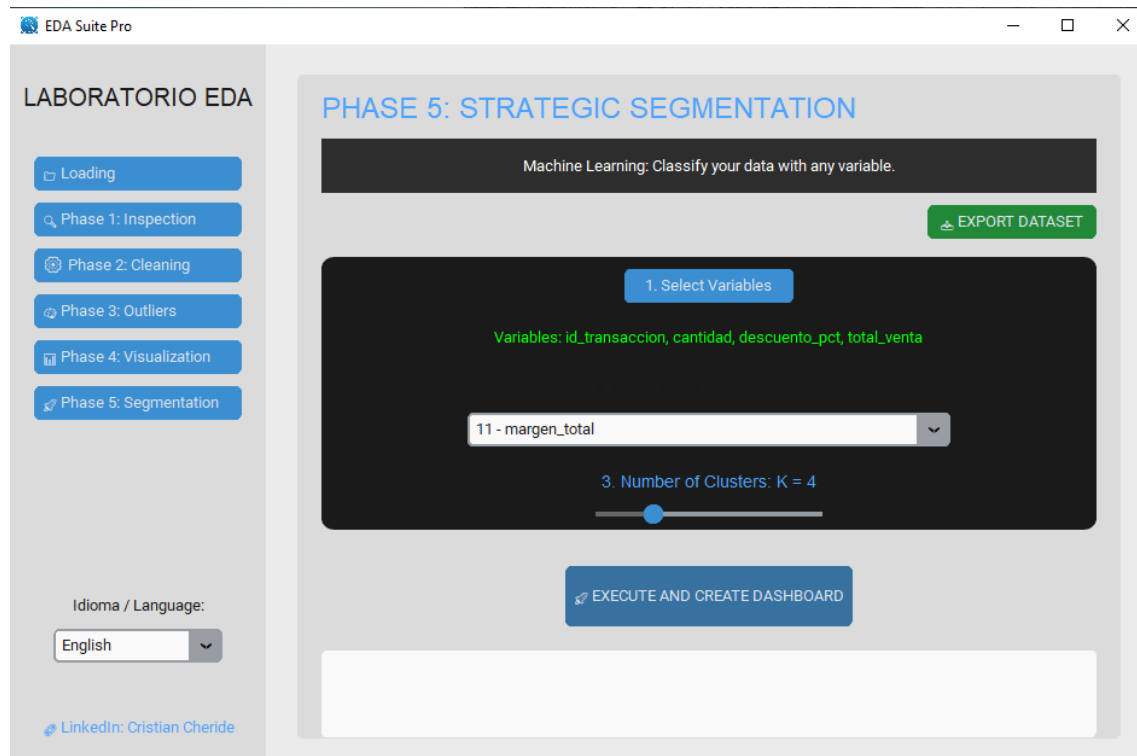
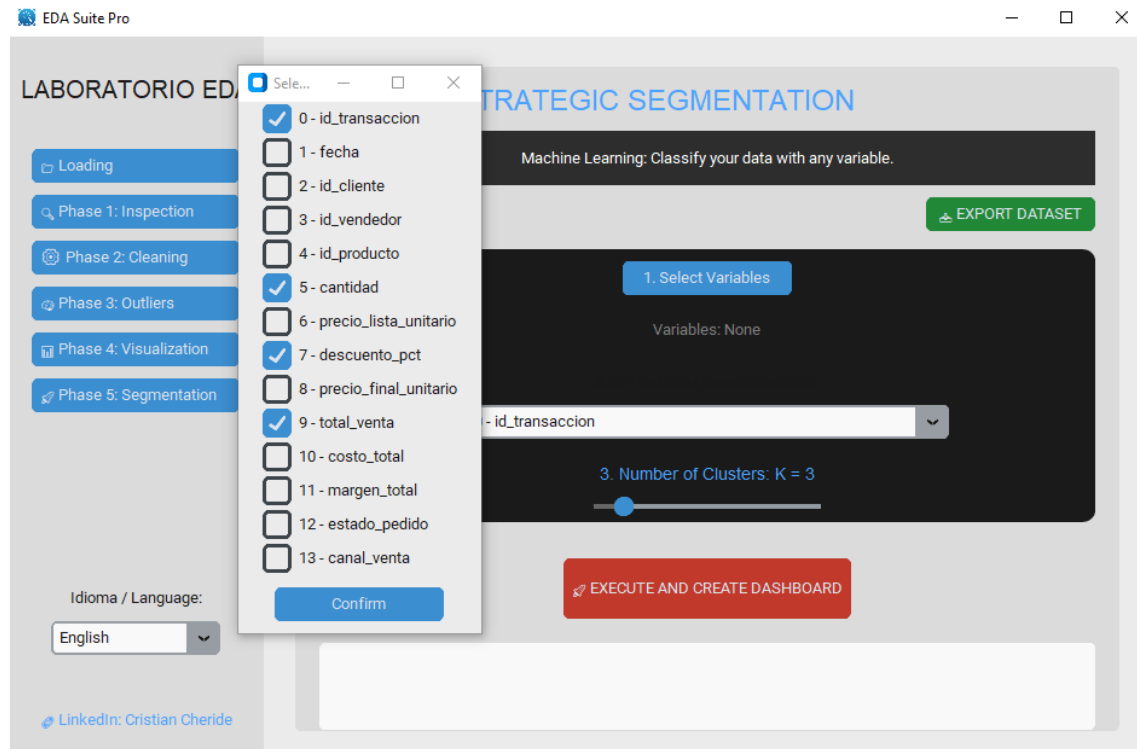


The screenshot shows the "PHASE 4: BI VISUALIZATION" configuration screen in EDA Suite Pro. The sidebar on the left is identical to the previous screenshot, with Phase 4: Visualization selected. The main area features a dark header "Professional interactive HTML Dashboard." and a green "EXPORT DATASET" button. Below these are three dropdown menus: "Line" (with a menu open showing options: Correlation, Scatter, Boxplot, Bar, Line, Pie), "1 - fecha", and "9 - total_venta". A "GENERATE INTERACTIVE HTML" button is positioned below the first dropdown. A language selector and LinkedIn link are also present in the sidebar.

Phase 5 - Variable Selection for Segmentation "Pop-up window allowing the user to choose which columns (including IDs or text) will be used for the Machine Learning model."

Phase 5 - Cluster Configuration (K=X) "Adjustment of the desired number of clusters using the dynamic slider with real-time confirmation label."

K-Means Algorithm Execution "Results console displaying the averages for each generated segment and the cluster assignment to the dataset."



Interactive 3D Dashboard "Three-dimensional visualization of segmentation, where the size and color of the bubbles represent the selected success KPI."

