User Guide

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Universal Data Cleaning & Exploration App  
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Preface

This guide provides instructions for end users to install, navigate, and use the Universal Data Cleaning & Exploration App. It is written for non-technical users and includes procedural steps, visual aids, and support contacts.

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General Information

The Universal Data Cleaning & Exploration App is a tool designed to support users in uploading, cleaning, exploring, and exporting structured data files. Its functionalities include previewing data, handling missing values, generating visualizations, and exporting clean datasets.

Getting Started

1. Launch the application.  
2. Use the 'Upload' button to load a CSV file.  
3. Review the raw data preview to confirm successful load.

Using the System

The user can apply several data cleaning functions:  
- Drop NA: Removes missing rows.  
- Fill Mean/Mode: Imputes missing values.  
- Convert types: Forces numeric conversion.  
Visualizations (histogram, scatter plot, heatmap) can be generated through the Visuals tab. Finally, use the 'Export' button to download the cleaned dataset.

Troubleshooting

If a file fails to upload, ensure it is in CSV format. If cleaning steps do not behave as expected, verify that the dataset structure conforms to tabular norms.

FAQ

Q: Can I upload Excel files?  
A: No. Only CSV format is currently supported.  
Q: Where is the exported file saved?  
A: The file is saved to your default downloads folder.

Help and Contact Details

For assistance, please contact Inas Al Sheikhli at: inas.sheikhli@gcu.edu

Glossary

- CSV: Comma-separated values  
- NA: Not Available (missing value)  
- Coercion: Forcing conversion of data types  
- Imputation: Filling missing data with statistical estimates

System Administration Guide