# Data Polish Dashboard

Welcome to the Data Polish Dashboard, an intuitive interface for data management and exploration. The dashboard is organized into three distinct sections:

**Data Profile**: Here, you can understand the structure and composition of your data.

**Data Quality:** This section is dedicated to evaluating the quality of your data, helping ensure accuracy and reliability.

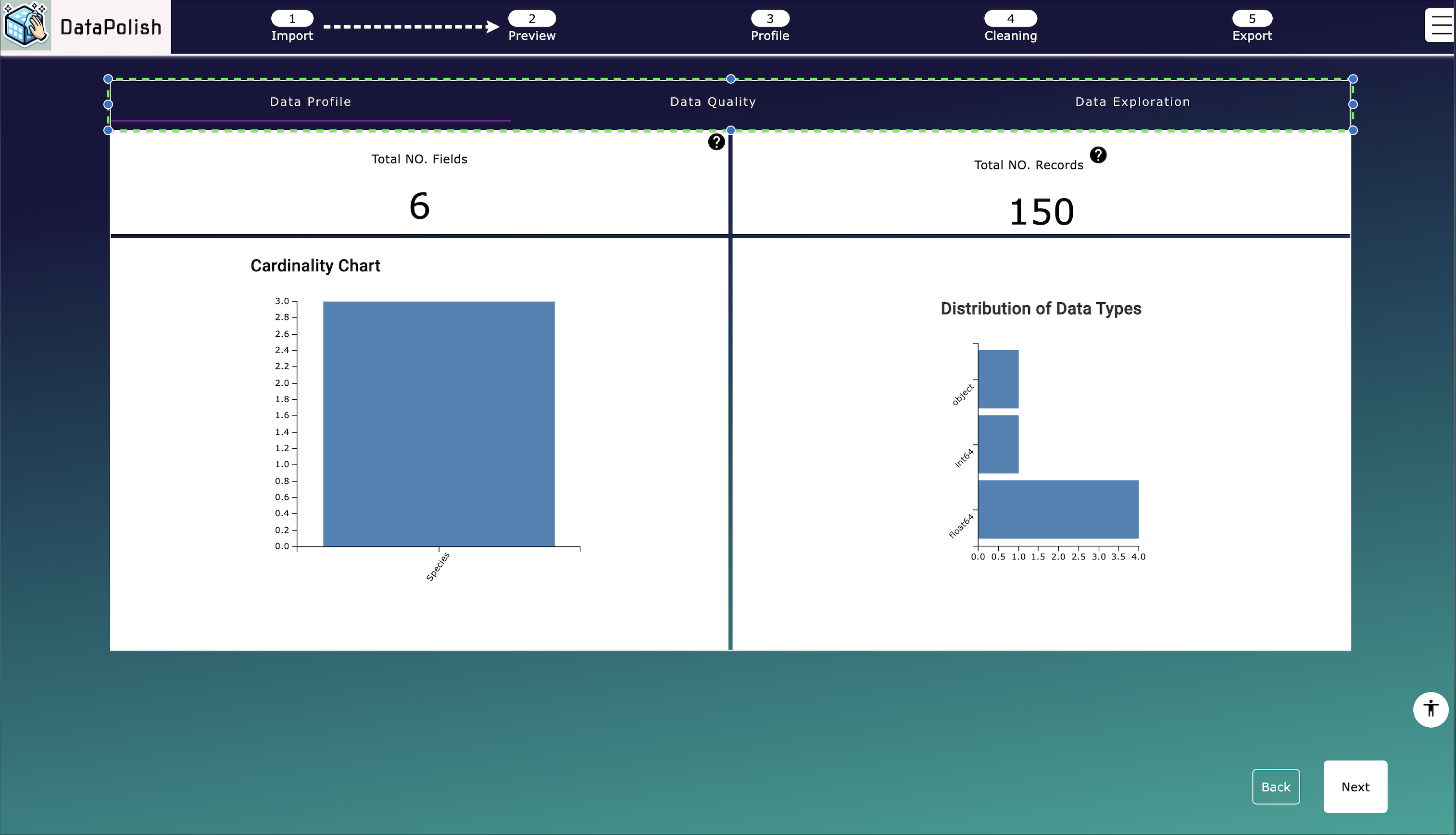
**Data Exploration:** Explore and interact with your data in various ways to gain deeper insights.

## Navigating the Dashboard:

Easily navigate between these sections using the three tabs located at the top of the dashboard.

The tab you are currently viewing will be distinctly marked with a purple underline for easy identification.

Use these tabs to effortlessly switch between different aspects of your data, enhancing your data management experience.



## Data Profile Tab

### Overview:

The Data Profile helps you understand the fundamental structure of your data. It's designed to provide an overview of your data.



### Key Features:

**Record Count:** View the total number of records in your dataset.

**Field Count:** View the total number of fields, providing a glimpse into the dataset's complexity.

**Cardinality of Text Fields:** Understand the uniqueness of text data by exploring the cardinality, indicating the diversity in text fields.

**Data Type Distribution:** Examine the distribution of data types within your dataset. This feature helps in understanding the proportion of different data types like numeric, text, dates, etc.

### Visual Insights:

Below, you'll find a series of charts that visually represent these data attributes. These charts are designed to offer a clear and immediate understanding of your data's structure and composition.

Use the Data Profile tab to gain a deep and immediate understanding of the structure and nature of your data, setting the foundation for further data quality and exploration activities.

## Data Quality tab:

### Overview

The Data Quality tab is designed to provide you with an understanding of the quality of your data. This tab is a powerful tool for identifying and addressing data quality issues.

A screenshot of a computer

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### Key Features:

**Duplicate Record Identification:** Discover the number of duplicate records in your dataset.

**Data Quality Score:** Gives you a summarized view of your data's quality through a comprehensive score. This score is a quick indicator of the overall health of your data.

**Missing Values Chart:** Easily identify fields with missing values and quantify the extent of these gaps in your data.

### Data Quality Score Attributes:

The Data Quality Score is broken down into four key attributes, each representing an aspect of data quality:

**Completeness**: Assessing whether all necessary data fields are filled.

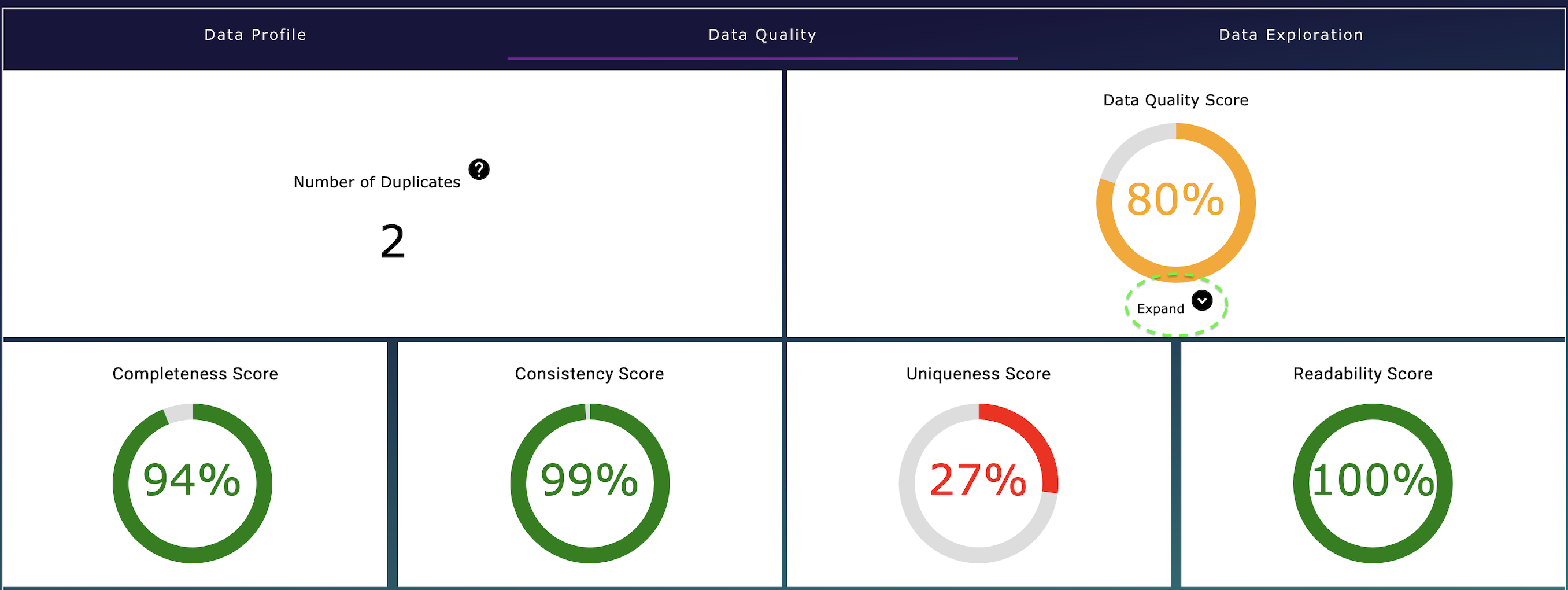
**Uniqueness**: Evaluating the exclusivity of data entries.

**Consistency**: Ensuring that data formats and values are uniform across the dataset.

**Readability**: Determining the ease with which data can be read and understood by users and processing systems:

View these attributes in detail using the radar chart, providing a visual representation of your data’s strengths and areas for improvement.

Alternatively, click 'Expand' under the Data Quality score metric for a more detailed breakdown, as illustrated below.



## Data Exploration tab

### Overview

The Data Exploration tab is an interactive and insightful component of your dashboard, designed to enable you to delve deep into your data and uncover insights. This tab is instrumental in visualizing and comprehending the complexities and relationships within your dataset.

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A screenshot of a graph

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### Key Features:

**Numerical Data Distribution:** Examine the spread and behavior of your numerical data. This feature helps you understand the range, median, and common patterns in your numerical data.

**Correlation Discovery**: Discover the relationships between various numerical variables. This is crucial for identifying trends and dependencies within your data.

**Outlier Scatter Plot Visualization**: Utilize scatter plots to visually identify and analyze outliers in your data. This tool is key in recognizing anomalies and unusual patterns.

**Bubble Chart for Categorical Data:** Dive deeper into your categorical data with the bubble chart. This interactive tool enables you to identify and understand the most prevalent values in a selected column, providing a clear view of categorical data distributions.

### Interactivity and Insight:

The Data Exploration tab is not just about viewing data; it’s about interacting with it. Each feature is designed to provide a hands-on experience, allowing you to engage with your data in a dynamic way.

Through these tools, you can effectively visualize complex data relationships, making it easier to extract meaningful insights and make informed decisions about your data cleaning.