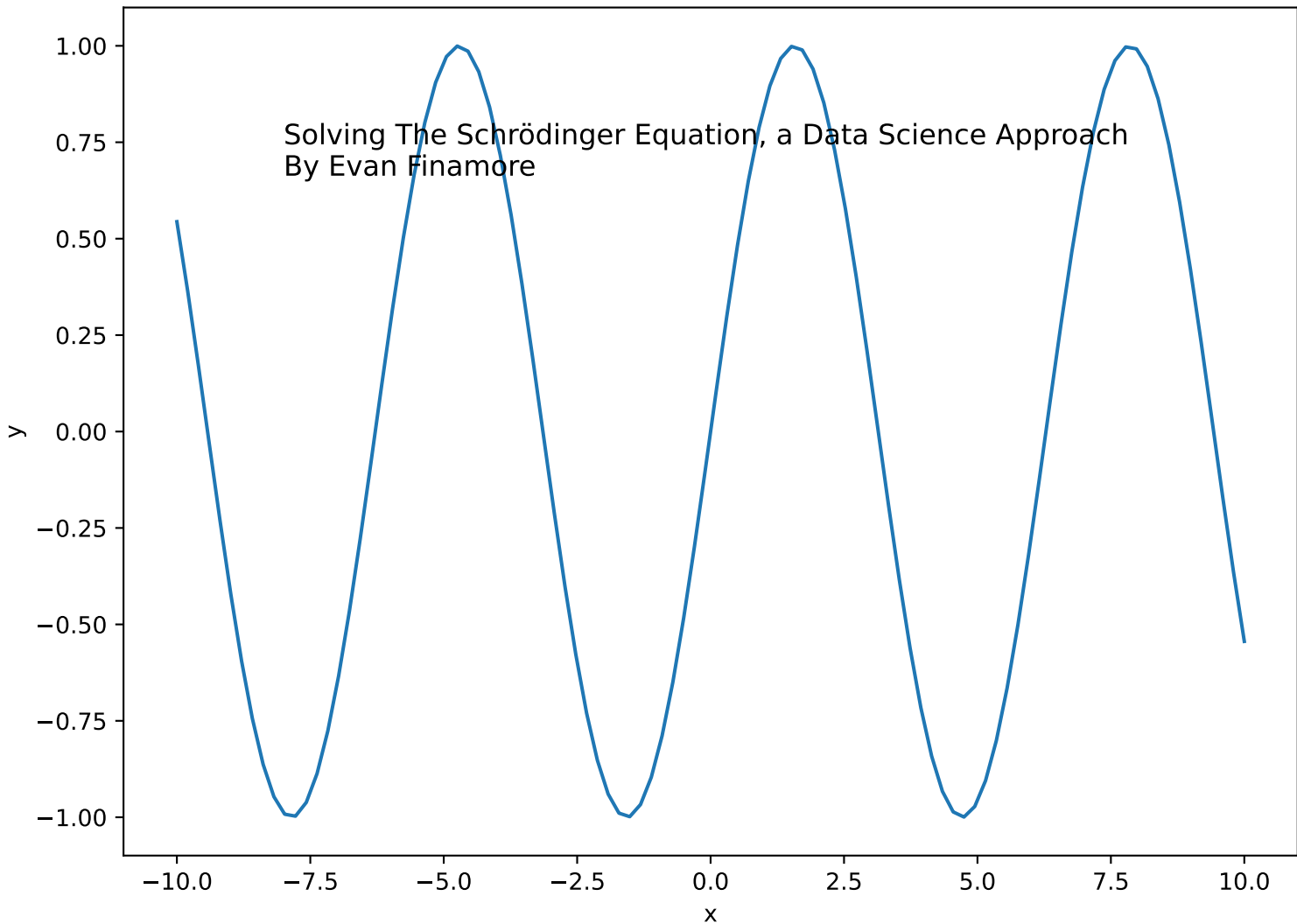


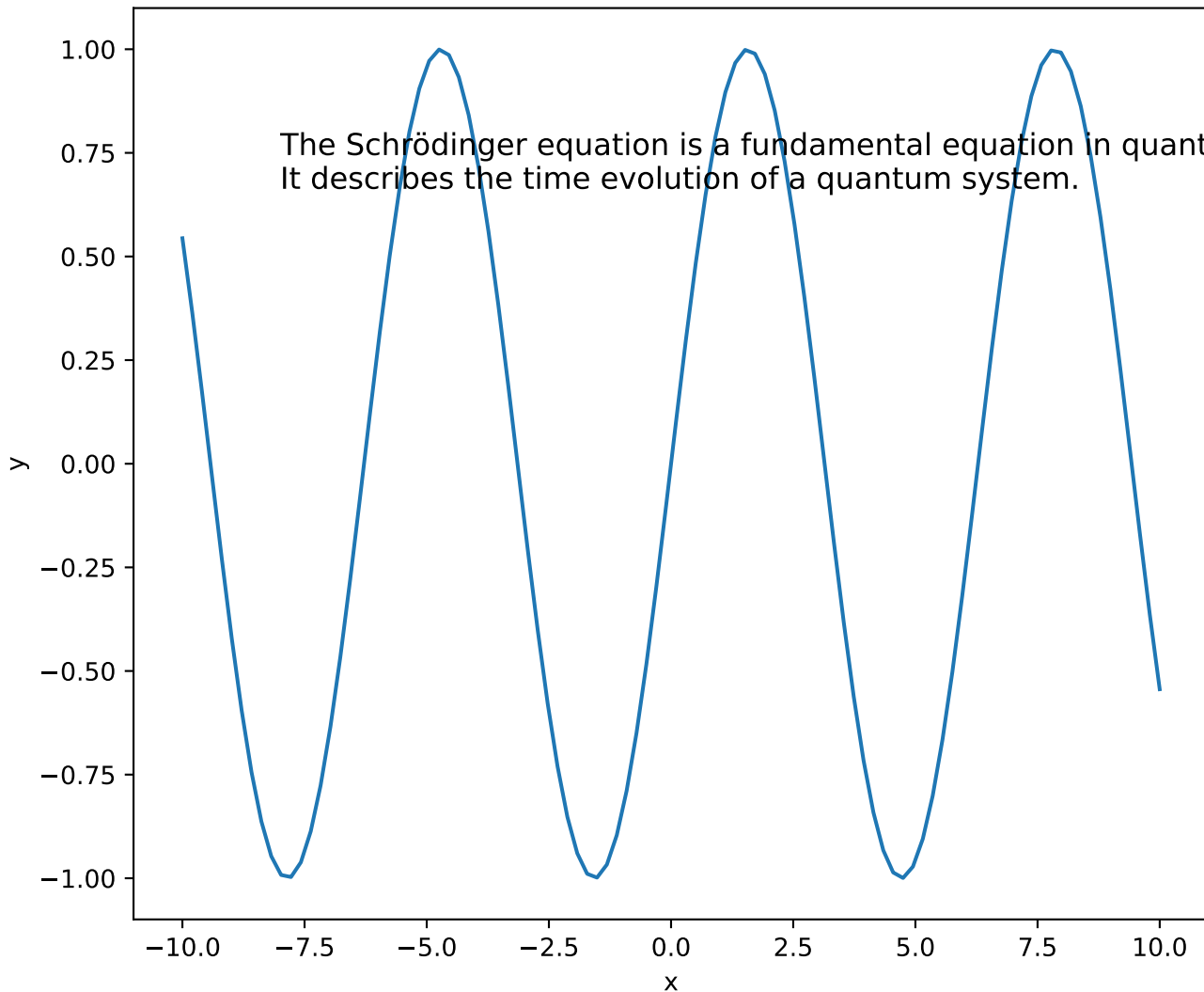
Title Slide

Solving The Schrödinger Equation, a Data Science Approach
By Evan Finamore

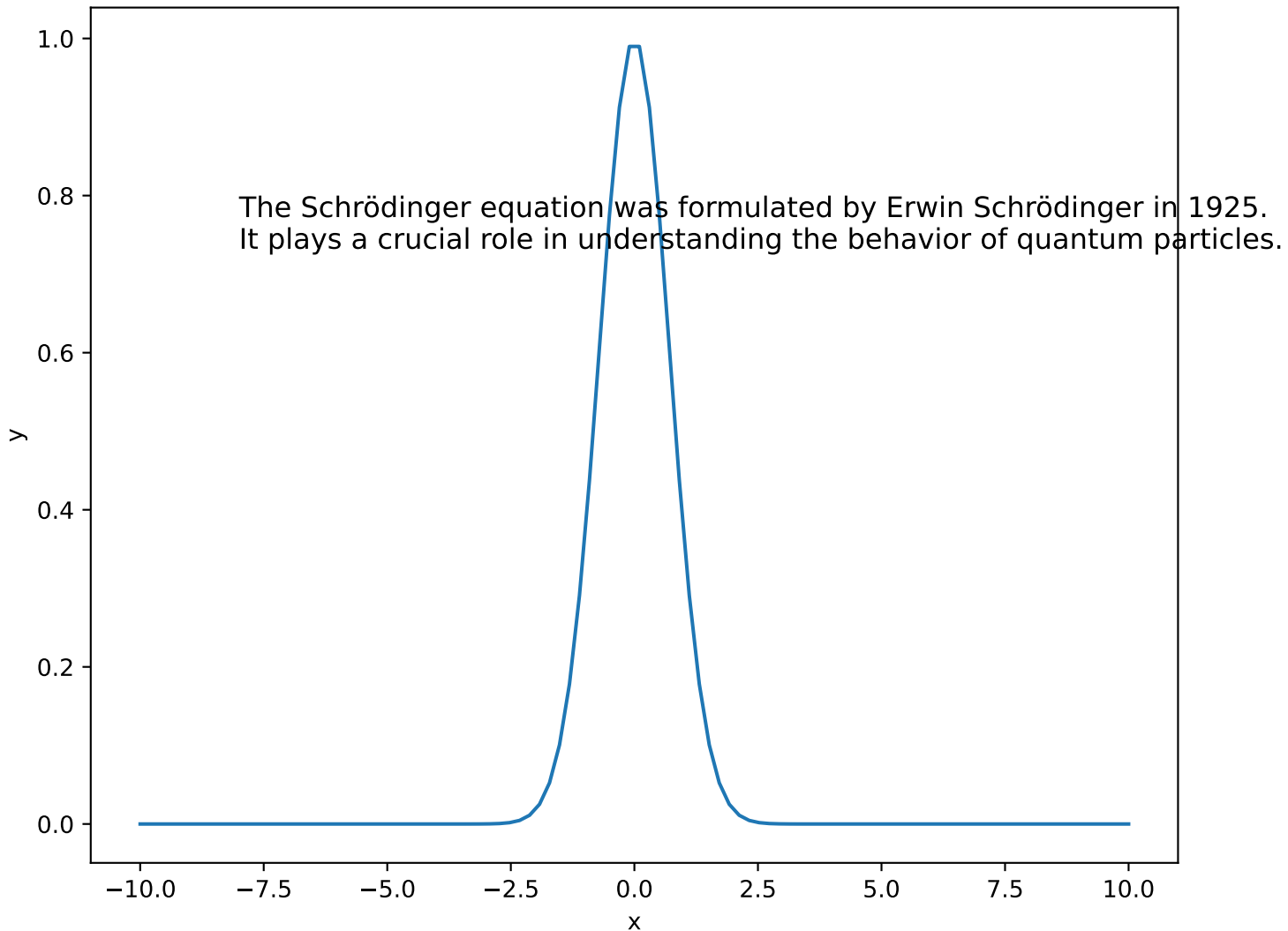


Executive Summary: Solving the Schrödinger Equation

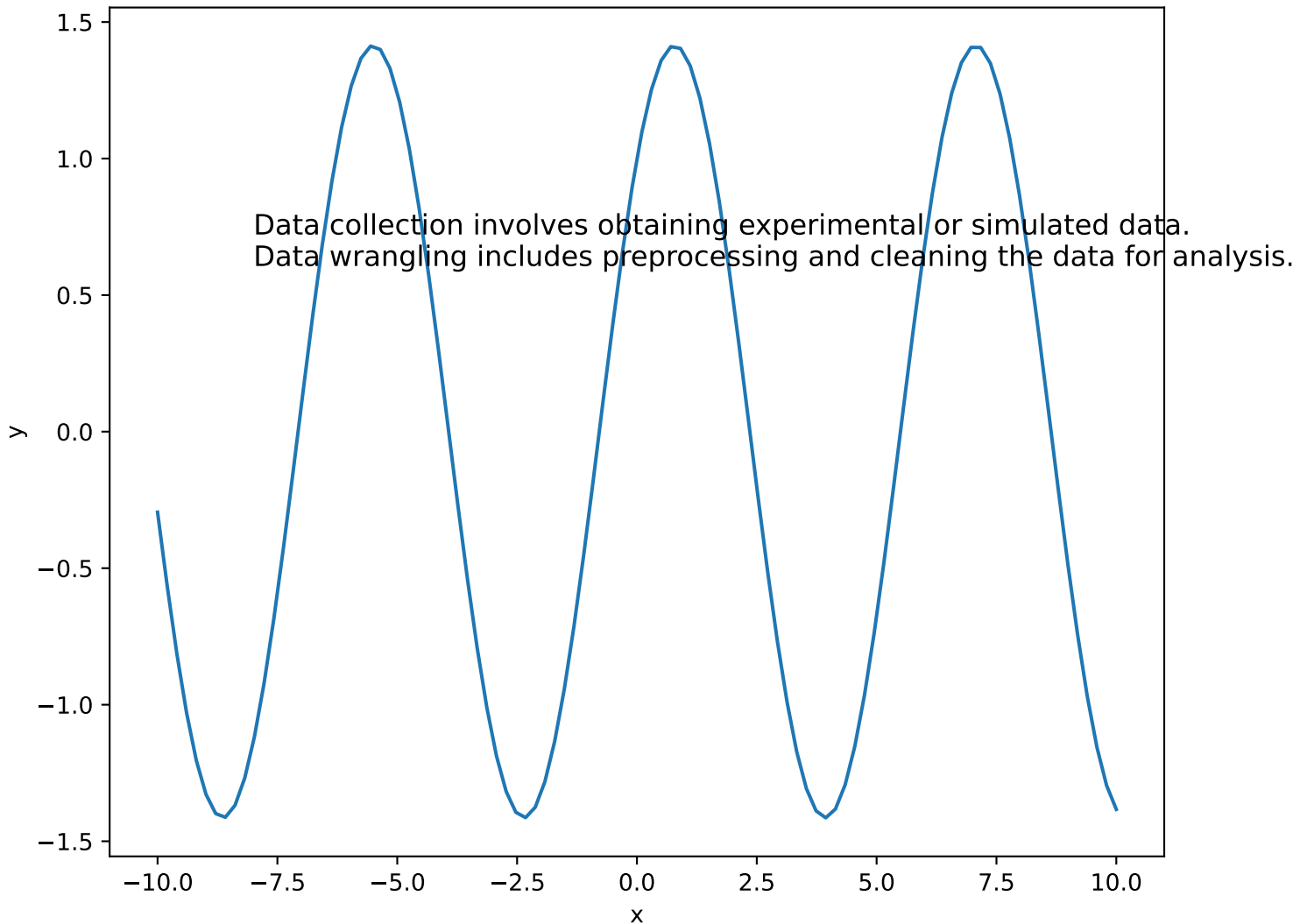
The Schrödinger equation is a fundamental equation in quantum mechanics. It describes the time evolution of a quantum system.



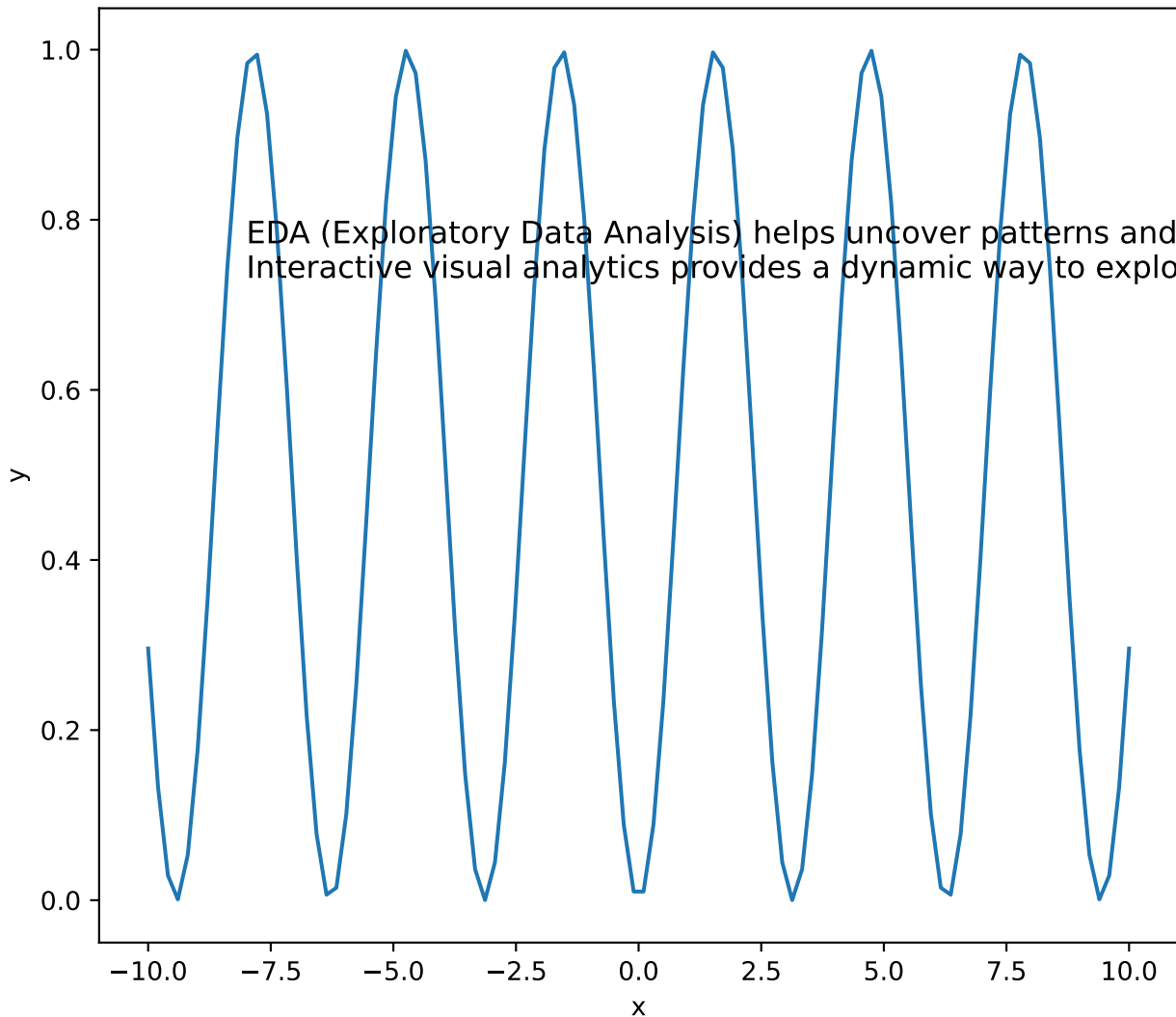
Introduction to the Schrödinger Equation



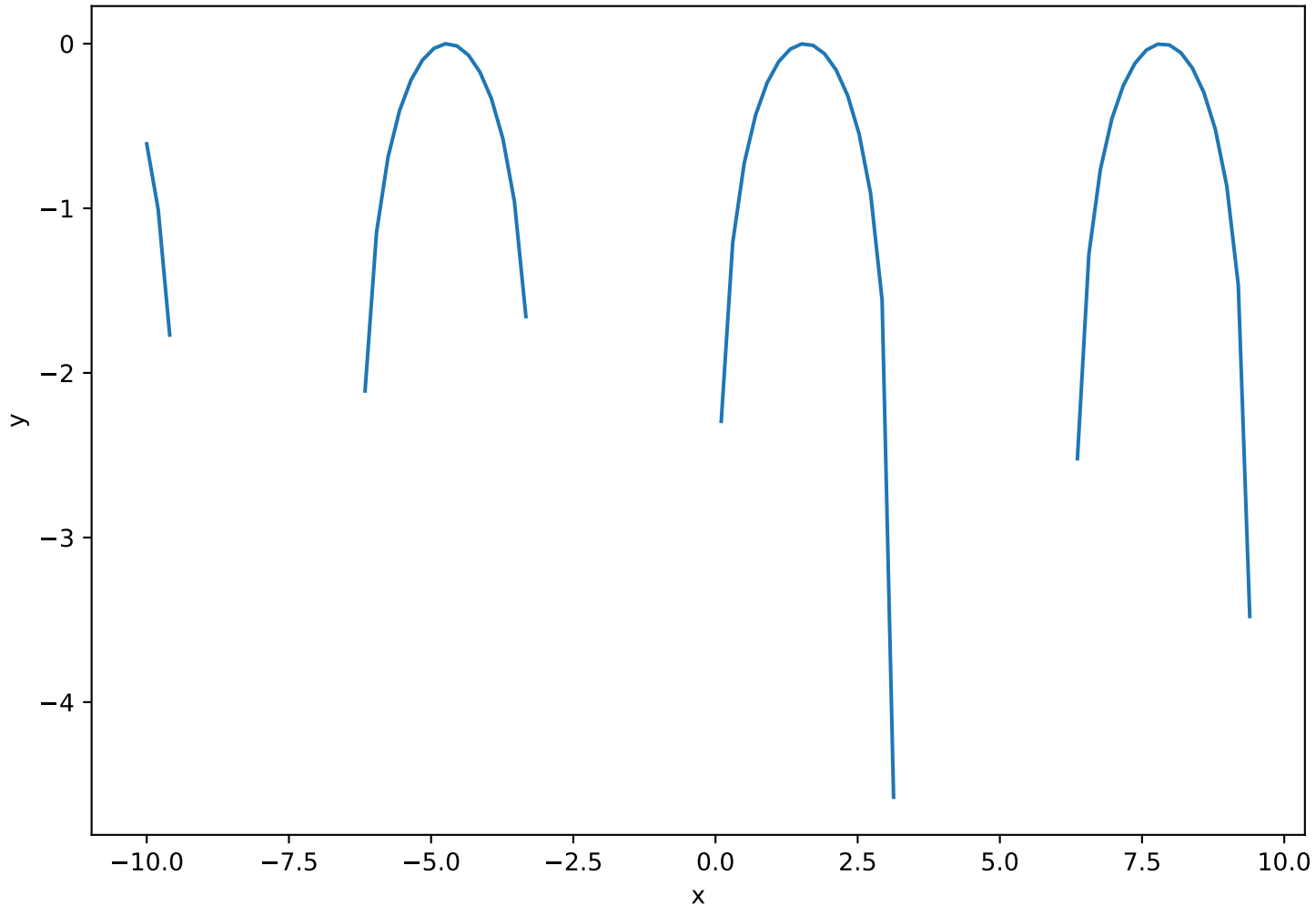
Data Collection and Data Wrangling Methodology



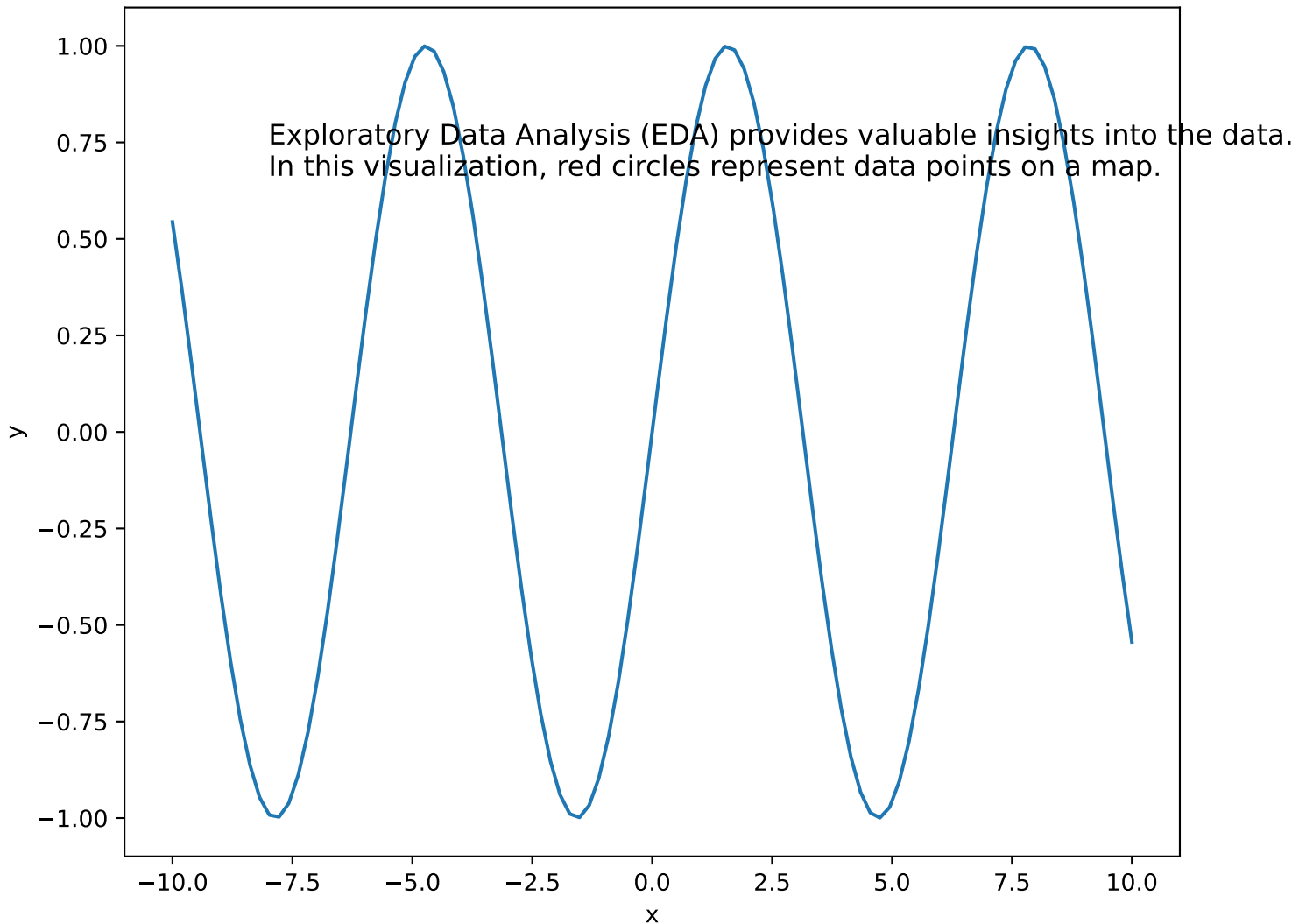
EDA and Interactive Visual Analytics Methodology



Predictive analysis uses mathematical models to make predictions.
In this case, we'll use logistic regression for classification.
Predictive Analysis Methodology

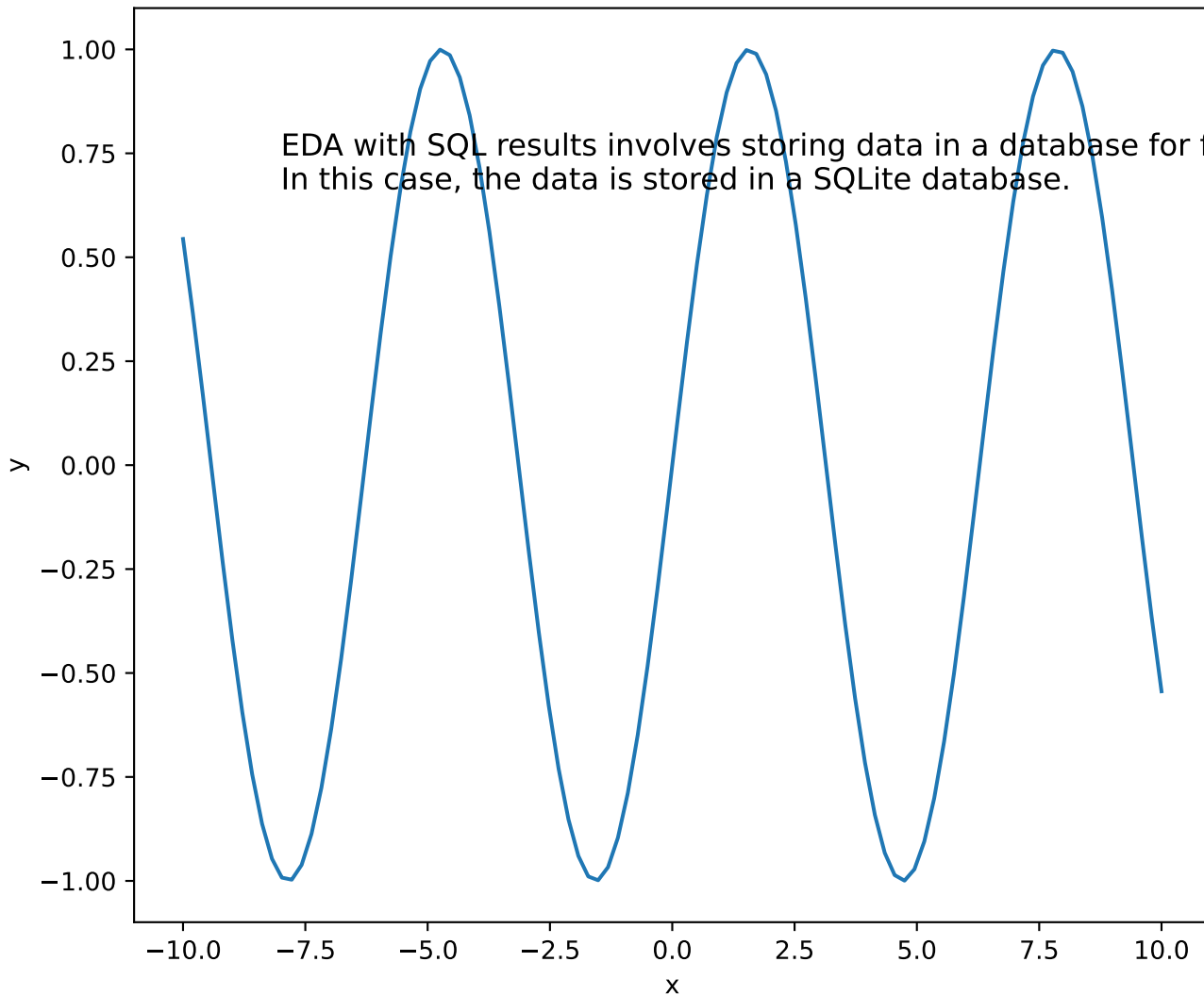


EDA with Visualization Results

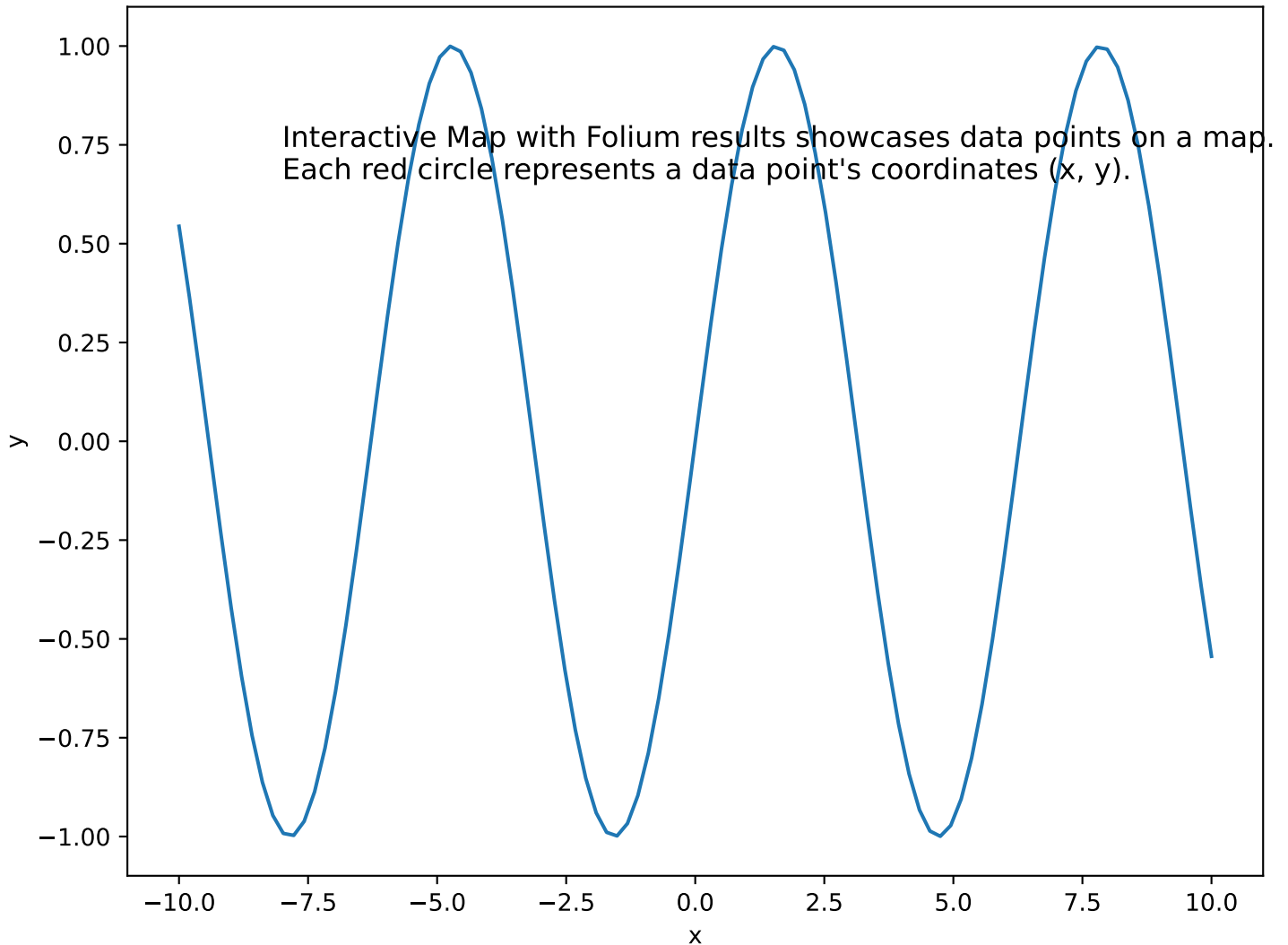


EDA with SQL Results

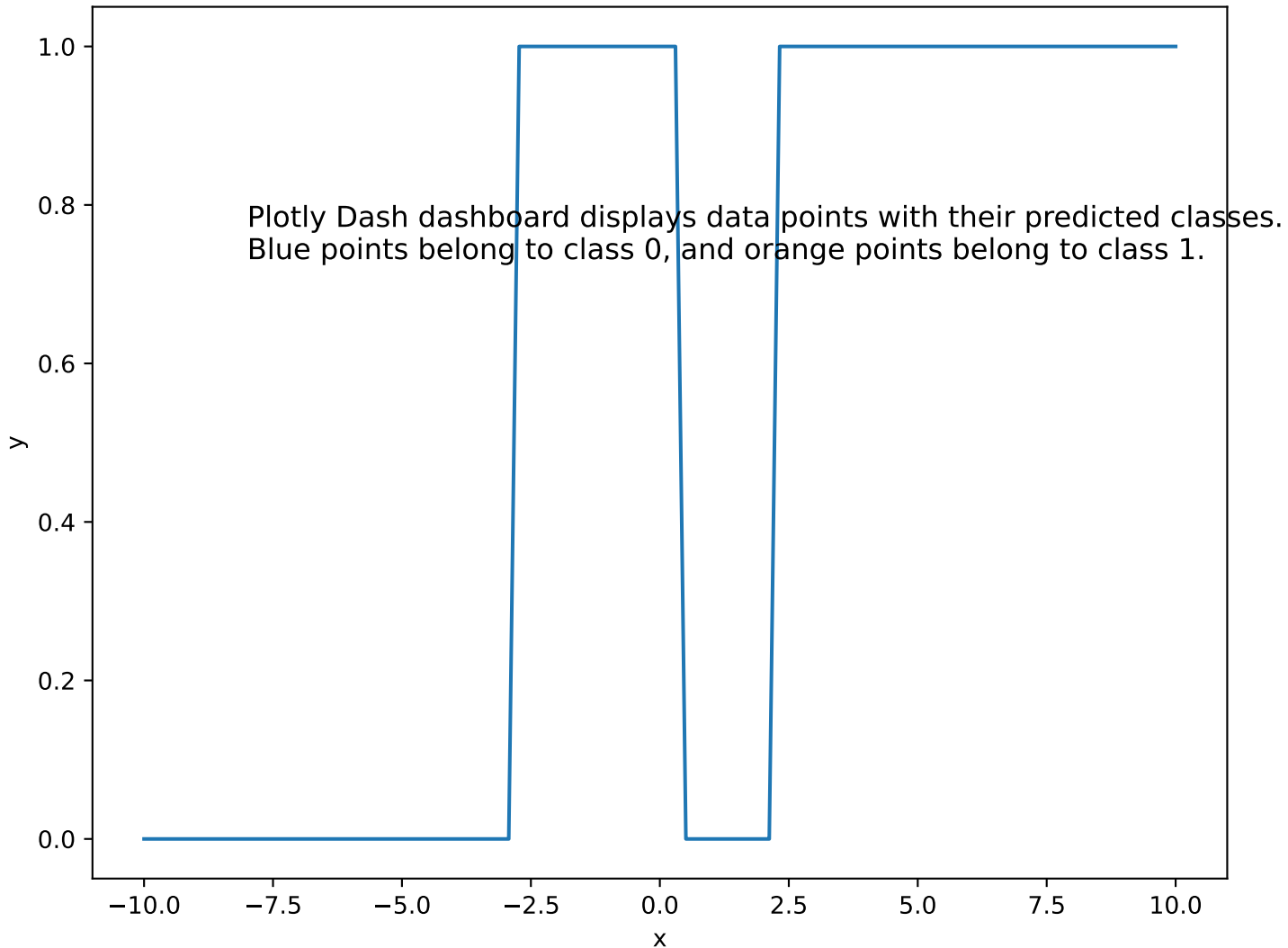
EDA with SQL results involves storing data in a database for further analysis.
In this case, the data is stored in a SQLite database.



Interactive Map with Folium Results

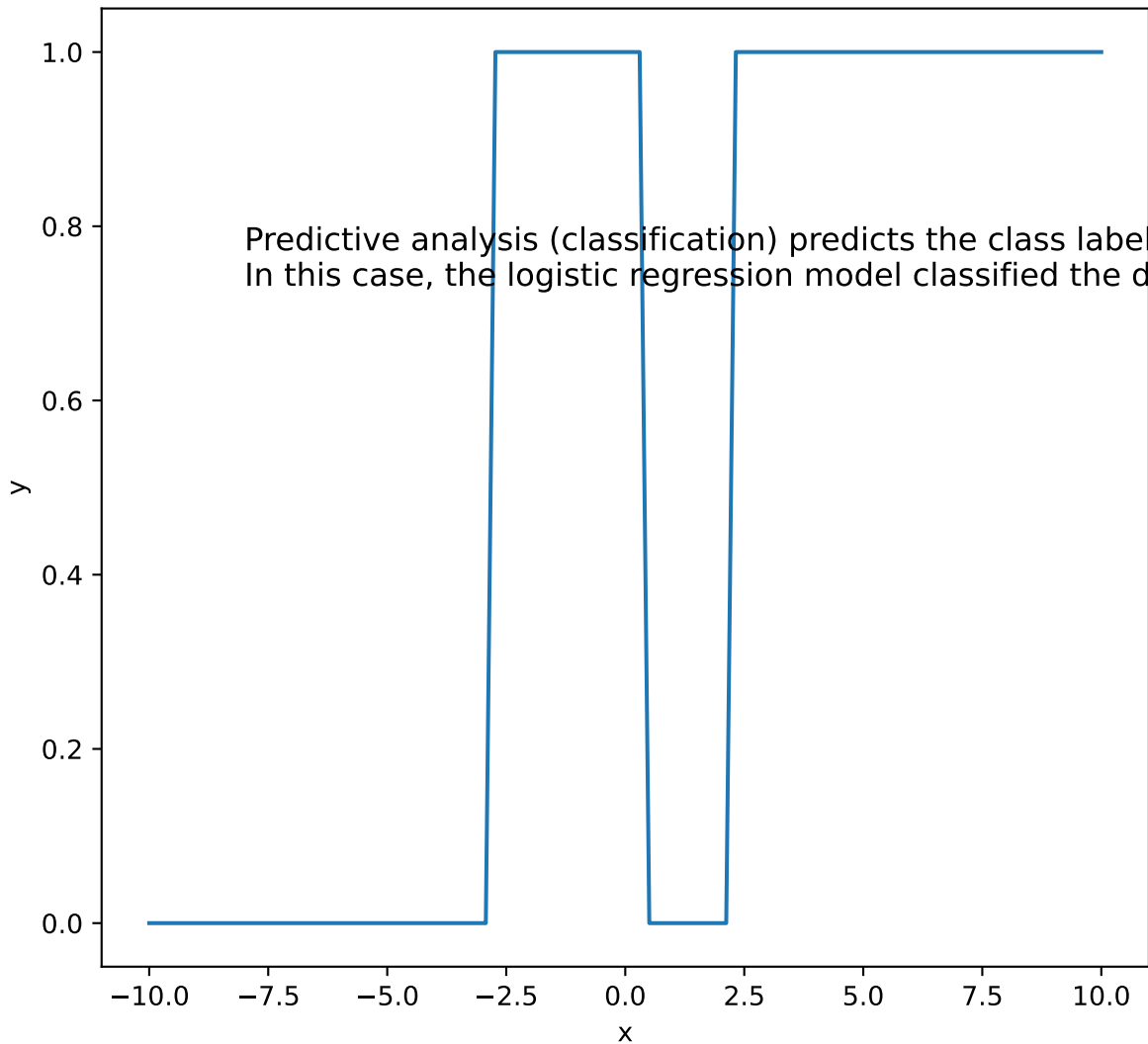


Plotly Dash Dashboard Results



Predictive Analysis (Classification) Results

Predictive analysis (classification) predicts the class labels of data points. In this case, the logistic regression model classified the data points into two classes.



Conclusion

In conclusion, the Schrödinger equation is a foundational concept in quantum mechanics. Through data collection, wrangling, EDA, and predictive analysis, we gained insights into the data. Interactive visualizations and dashboards helped us explore and understand the results better. Thank you for your attention!

