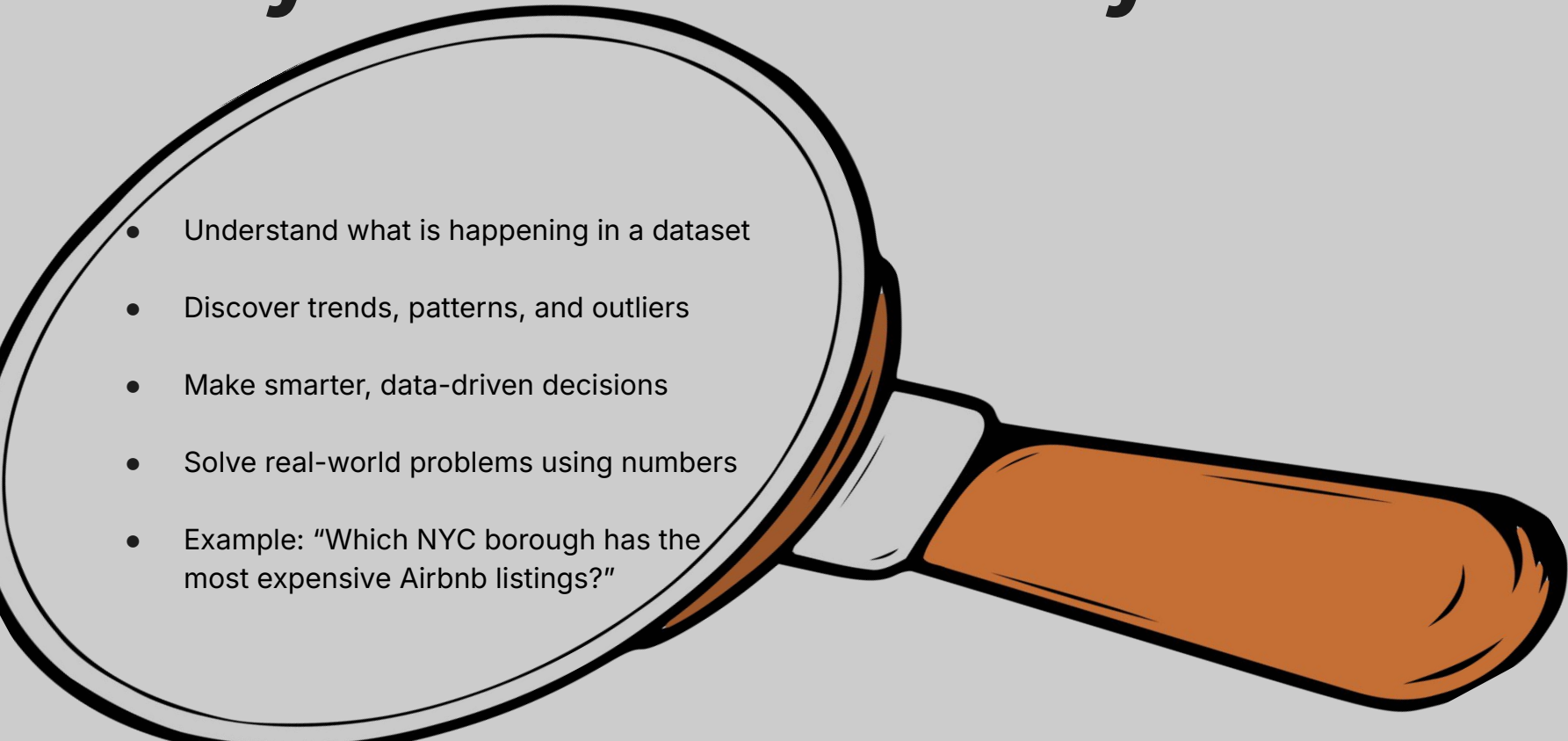


Introduction To Data Analysis



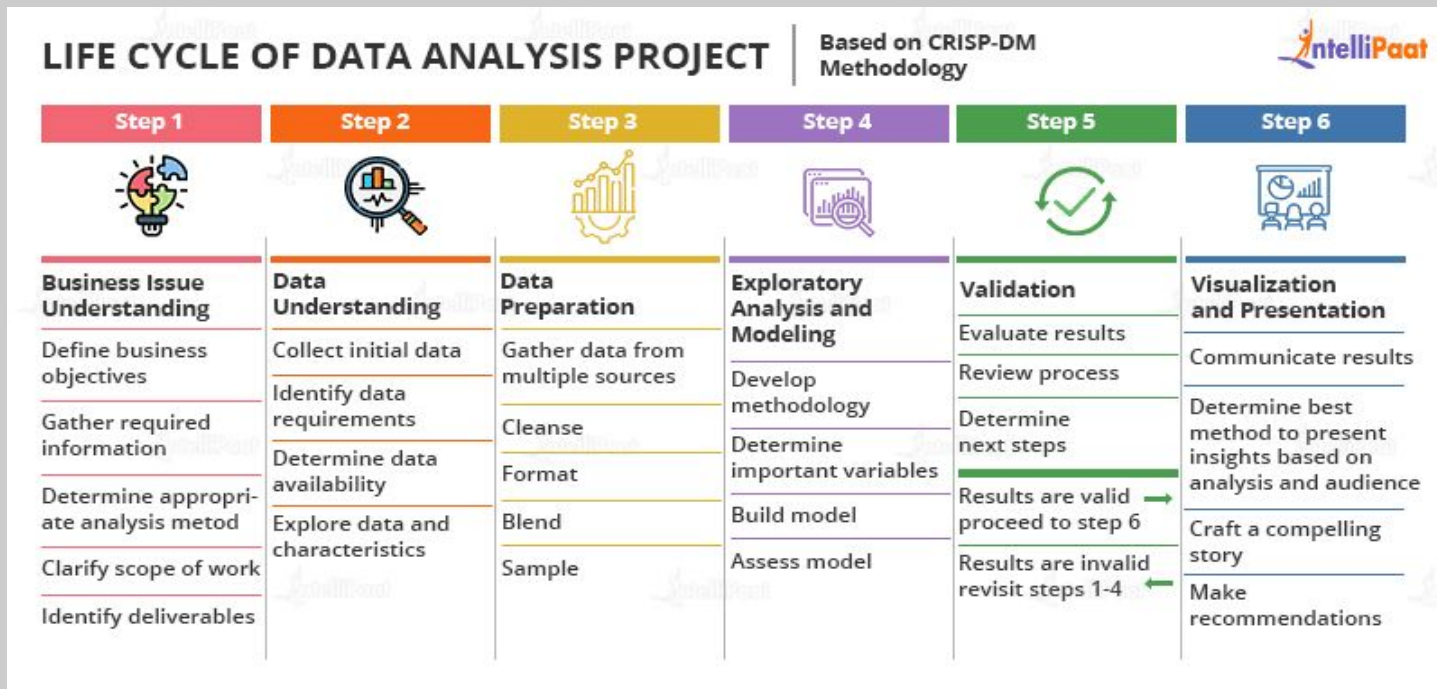
Why Should We Analyze Data?

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- Understand what is happening in a dataset
 - Discover trends, patterns, and outliers
 - Make smarter, data-driven decisions
 - Solve real-world problems using numbers
 - Example: "Which NYC borough has the most expensive Airbnb listings?"

What Tools to Use

- Python – easy-to-learn programming language
- Pandas – library for working with tables (DataFrames)
- Matplotlib – library for simple plots and charts
- Jupyter Notebook / Google Colab – interactive coding environment

The Data Analysis Life Cycle



Let's Analyze Some Data