Key Data Analyst Tools (In Depth Explanations)

Spreadsheets

Data analysts rely on spreadsheets to collect and organize data. Two popular spreadsheet programs you will use are Microsoft Excel and Google Sheets

Spreadsheets Structure data in a meaningful way by letting you

- Collect, Store, Organize, and Sort Information
- Identify patterns and piece the data together in a way that works for each specific data project.
- Create excellent data visualizations, like graphs and charts.

Databases and Query Languages

A database is a collection of structured data stored in a computer system. Some popular *Structured Query Language* programs include **MySQL**, **Microsoft SQL Server**, and **BigQuery**

Query Languages

- Allow analysts to isolate specific information from a database
- Make it easier for you to learn and understand the requests made to databases
- Allow Analysts to select, create, add, or download data from a database for analysis

Visualization Tools

Data analysts use a number of visualization tools, like **Graphs**, **Maps**, **Tables**, **Charts**, and more. Two Popular visualization tools are, *Tableau and Looker*

These Tools

- Turn complex numbers into a story that people can understand
- Help stakeholders come up with conclusions that lead to informed decisions and effective business strategies
- Have Multiple Features
 - Tableau's simple drag and drop feature lets users create interactive graphs in dashboards and worksheets
 - Looker communicates directly with a database, allowing you to connect your data right to the visual tool you choose

A Career as a data analyst also involves using programming languages like **R** and **Python**, which are used a lot for *Statistical Analysis*, *Visualization*, and other data analysis

Key Takeaway

You have a lot of tools as a data analyst.