DATA ANALYST

Maxwell Robertson 2025

WHAT DO THEY DO

1. Data Cleaning and Preparation. Data Analysts makes sure the data is accurate and ready for analysis.

2. Data Analysis and Interpretation is the process of applying statistical methods to show the story the data is telling

3. Data Analysts ensure analysis is valuable by translating complex data findings into clear, digestible visualizations and reports for non-technical decision-makers.

EDUCATION

1. A Data Analyst requires at least a Bachelor's Degree in a quantitative field (e.g., Computer Science, Statistics, or Mathematics).

2. For competitive or senior roles, a Master's Degree or relevant certifications (like those in Data Science or Tableau) is recommended.

SKILLS & REQUIREMENTS

Technical Skills. These are the hard skills needed to manipulate, analyze, and visualize data.

1. SQL (Structured Query Language) is the foundational skill for querying and manipulating data in relational databases.

2. Programming Python is used for advanced data analysis, statistical modeling, and complex data cleaning, with Python often preferred for its versatility.

3. Data Visualization (Tableau/Power BI): Key for building interactive dashboards and reports to share insights clearly.

SKILLS & REQUIREMENTS

Soft Skills. These are crucial for translating technical findings into business value and working effectively within a team.

1. Critical thinking is the objective analysis of data to identify underlying causes and formulate relevant business questions.

2. Effectively communicate complex technical and statistical information to non-technical audiences through both written and verbal channels.

3. Problem-Solving: The ability to identify, analyze, and overcome business challenges using relevant data and methods, even amidst difficulties.
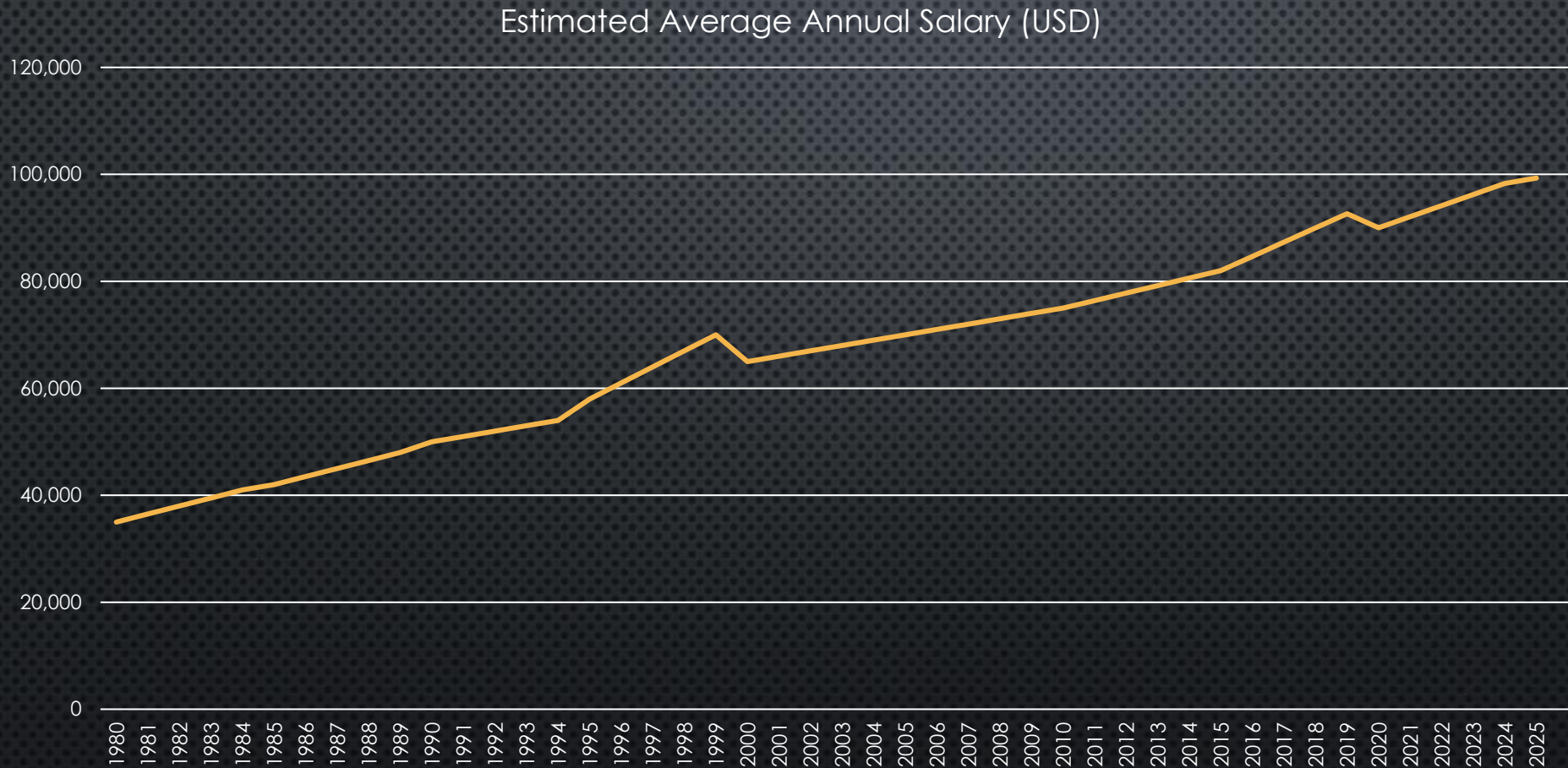
SALARY SNAPSHOT

Experience Level	Typical Years of Experience	Approximate Base Salary Range (USD)
Entry-Level Analyst	0 – 2 years	$60,000 – $80,000
Mid-Level Analyst	3 – 5 years	$80,000 – $110,000

https://www.coursera.org/articles/how-much-do-data-analysts-make-salary-guide

TREND CHART

Estimated Average Annual Salary (USD)