

## CAREER PROFILE

# Data Scientist

Data scientists use math, computer science, and statistics to find patterns and solve problems using large amounts of information, called data. They help many different industries, such as hospitals, sports teams, government agencies and many others, make decisions by turning data into useful insights and drive innovation.

### School to Career Pathway

- Complete coursework in math, computer programming, statistics, and science.
- Learn popular programming languages such as Python or R.
- Gain practical experience and build a portfolio of work through coding projects, internships, or data competitions.
- Earn a bachelor's or master's degree in data science, computer science, or statistics.

### Durable Skills

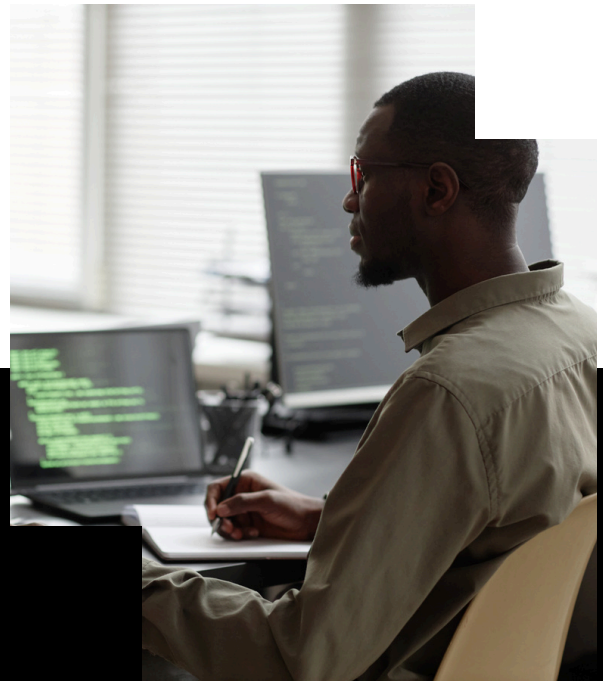
As a data scientist, you need:

- Strong math skills to collect, organize, and analyze data.
- Computer skills to write code, analyze data, develop or improve algorithms, and use data visualization tools.
- Communication skills to present analysis results and recommendations to technical and nontechnical audiences.

### Paycheck Peek

\$32.42 hourly, \$67,440 annually

\*Note that annual wages vary by location (state, city, or work setting)



## Core Duties

### Collect and organize data

Gather information from different sources and prepare it so it can be analyzed accurately.

### Analyze data

Use math, statistics, and computer programming to identify patterns, trends, and relationships in data.

### Build predictive models

Create computer models that can help predict future events, such as customer behavior, weather patterns, or equipment failures.

### Create data visualizations

Design charts, graphs, and dashboards that make complex information easy for others to understand.

### Share findings and recommendations

Explain results to business leaders, scientists, or other teams and suggest solutions based on the data.

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## Could This Be Your Thing?

- Do you like solving puzzles and finding patterns?
- Are your favorite subjects math, technology, and computer programming?
- Would you rather spend time coding on Scratch than playing baseball?
- Do you find yourself explaining an answer using numbers and graphs?

### Explore Similar Career Pathways

- software developer
- software quality assurance analyst and tester
- bioinformatics technician

## Dig Deeper Here

Find out more about all careers at: [US Bureau of Labor Statistics Student's Desk](#)

Find out more about STEM careers at: [Careers with STEM: Science](#)

Find out more about the careers above:

- [LabXchange: Data Scientist](#)
- [O\\*NET Online: Software Developer](#)
- [O\\*NET Online: Software Quality Assurance Analysts and Testers](#)
- [O\\*NET Online: Actuary](#)
- [Bioinformatics technicians](#): In this virtual career simulation, explore how bioinformatics technicians prepare, process, and visualize biological data to support analysis and interpretation.