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DLI Accelerated Data Science Teaching Kit

# Lecture 1.9 - Career Paths and Challenges



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# Career Paths and Challenges

What Does a Data Scientist Do?

Skills Needed to Be a Data Scientist

What Salary Can a Data Scientist Earn?

Where Do Data Scientists Work?

Related Jobs in Data Science

Challenges in Data Science Careers

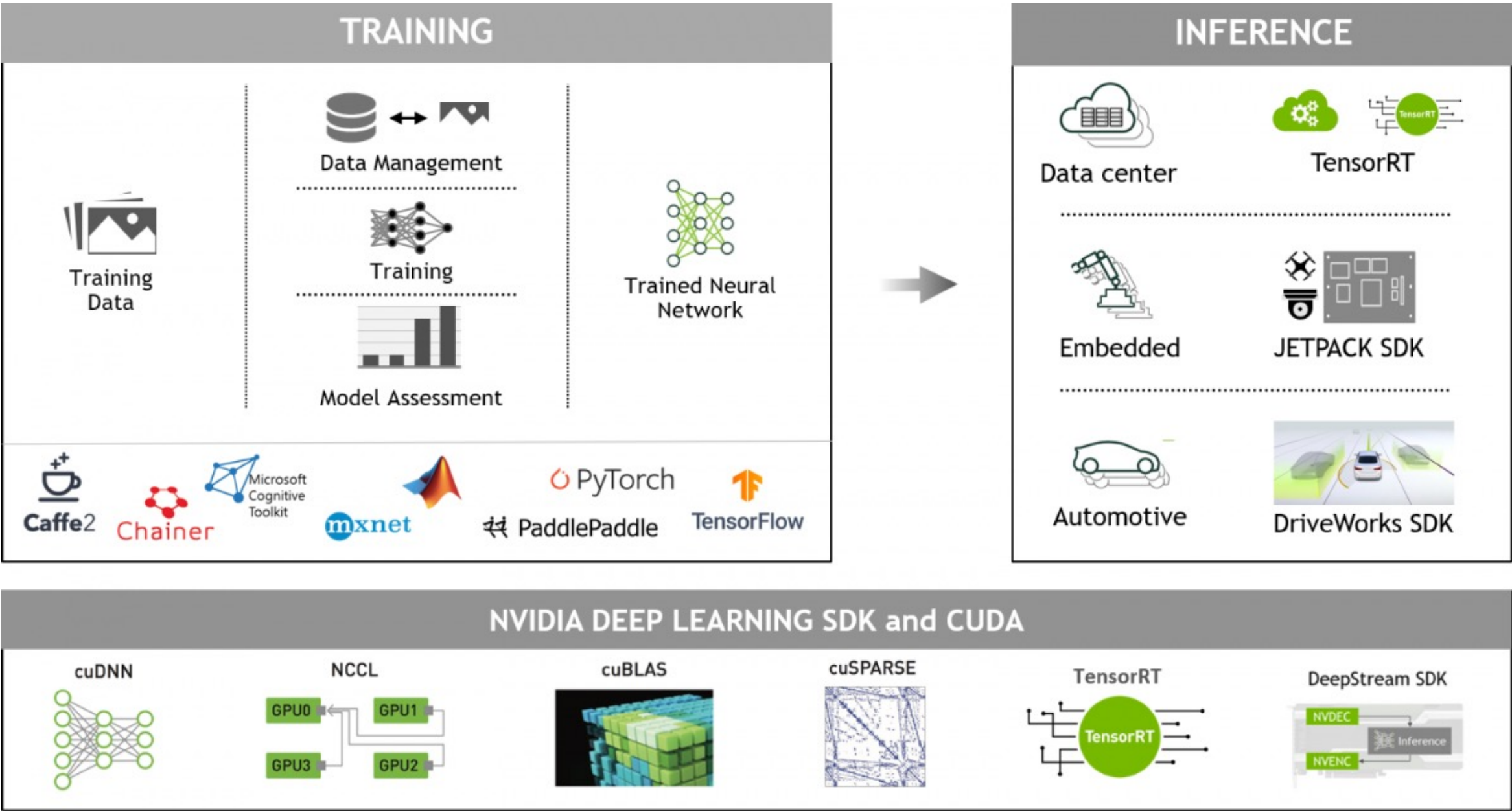
# What Does a Data Scientist Do?

Data Collection

Data Preprocessing

Data Visualization

Data Analytics and Application



# What Does a Data Scientist Do?

# Data Collection

# Data Preprocessing

# Data Visualization

# Data Analytics and Application



## Collecting Data from Various Sources



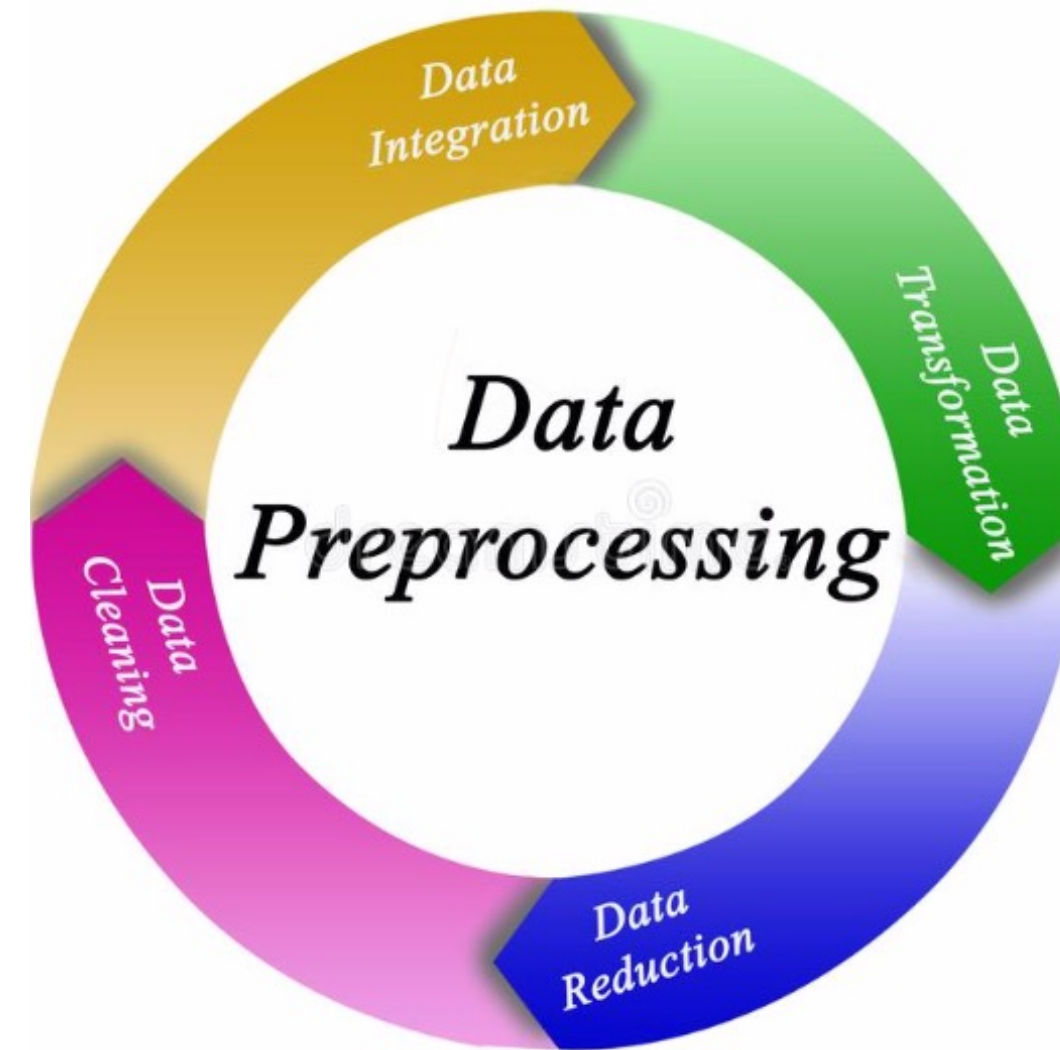
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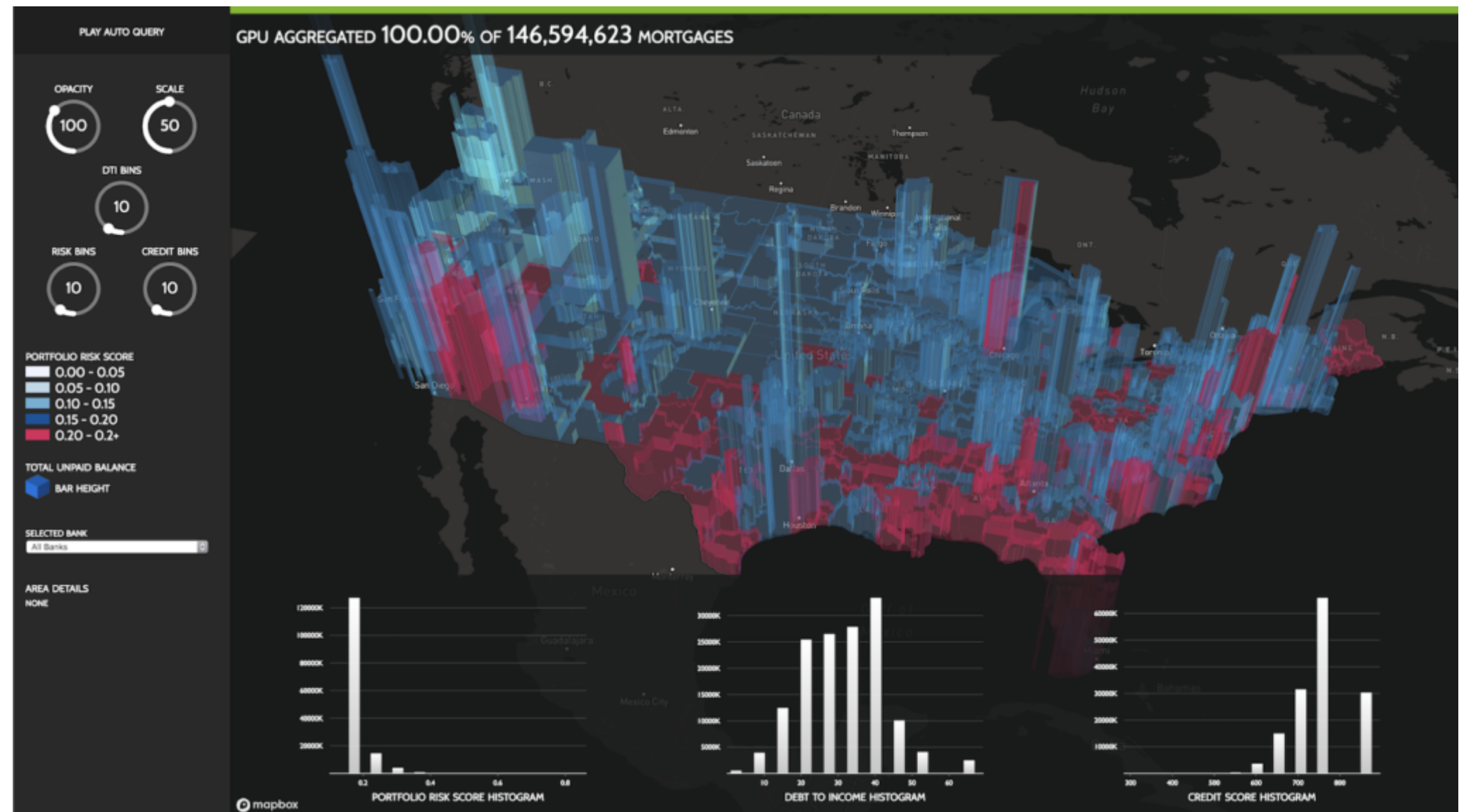
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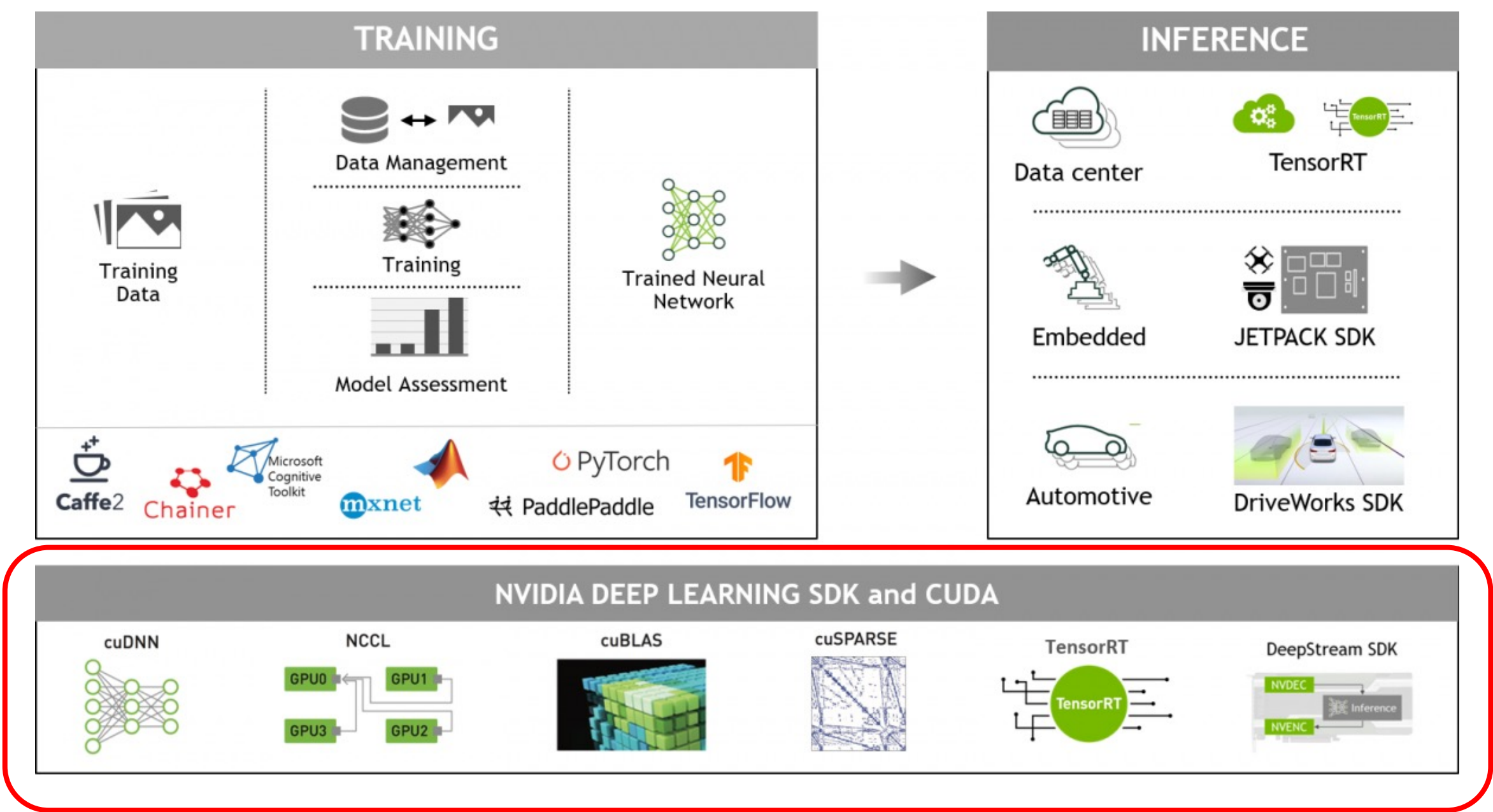
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# Skills Needed to Be a Data Scientist

Analytical Skills

Communication Skills

Critical and Logical Thinking Skills

Math Skills

Computer Programming Competency

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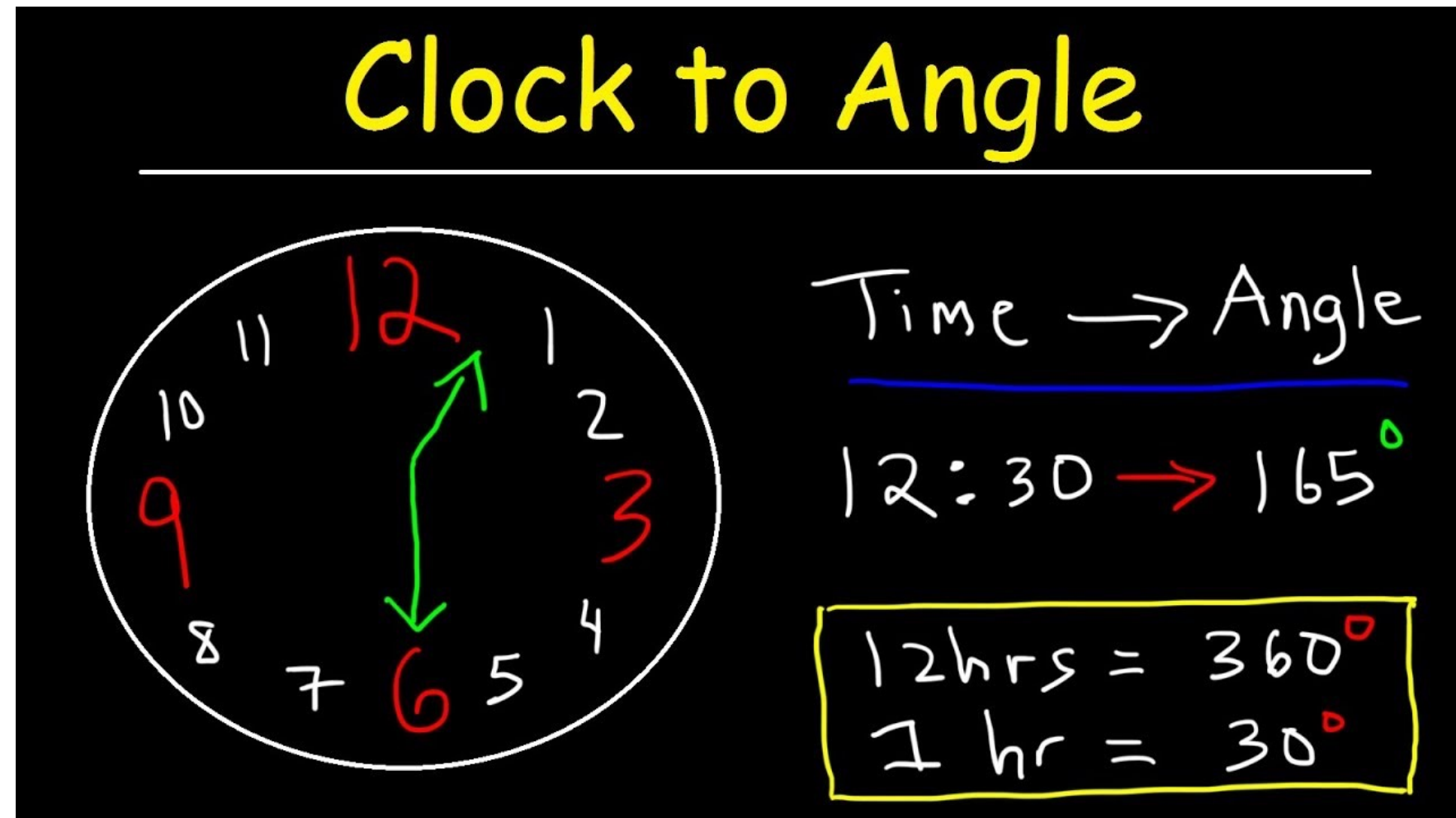
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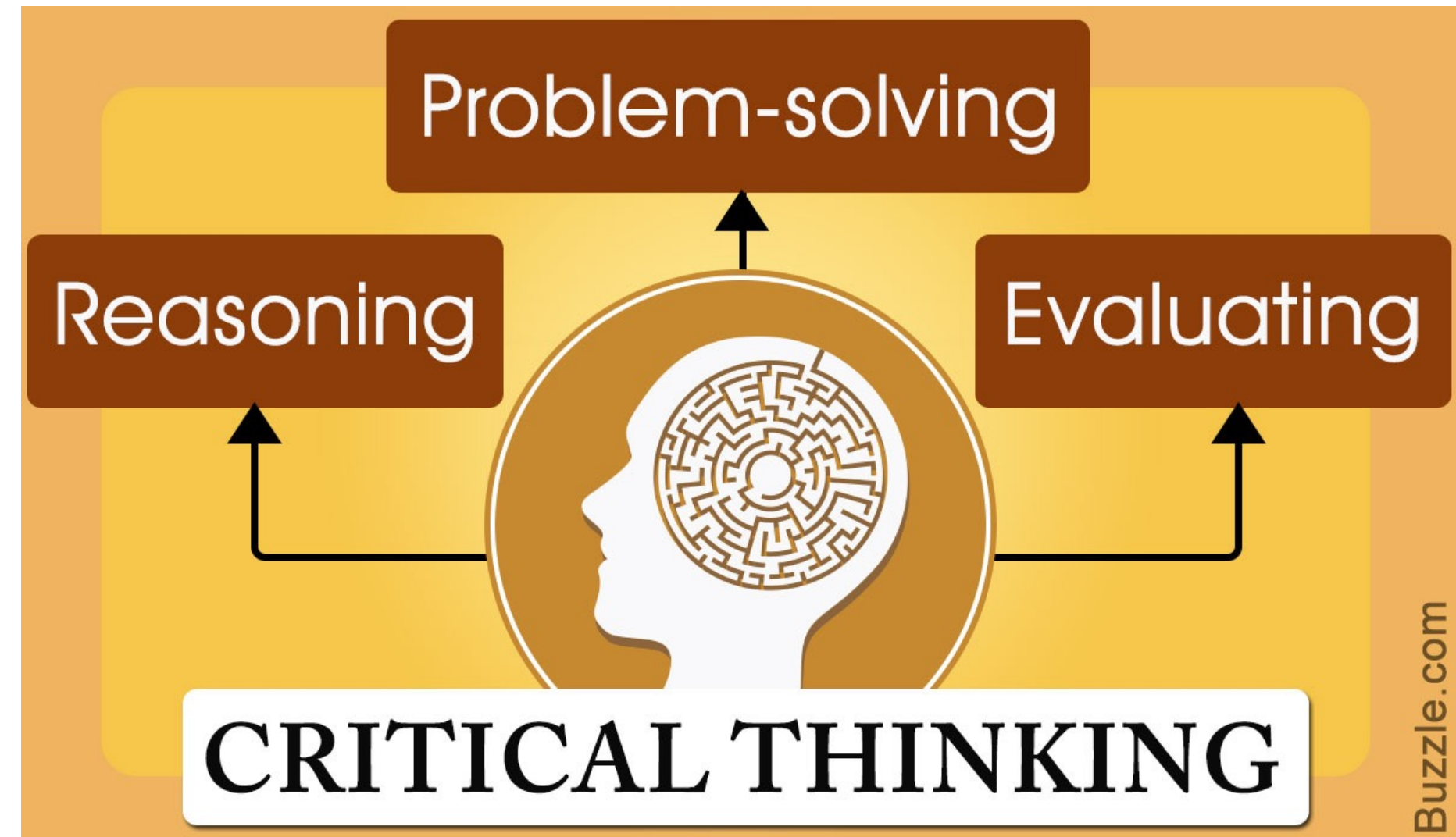
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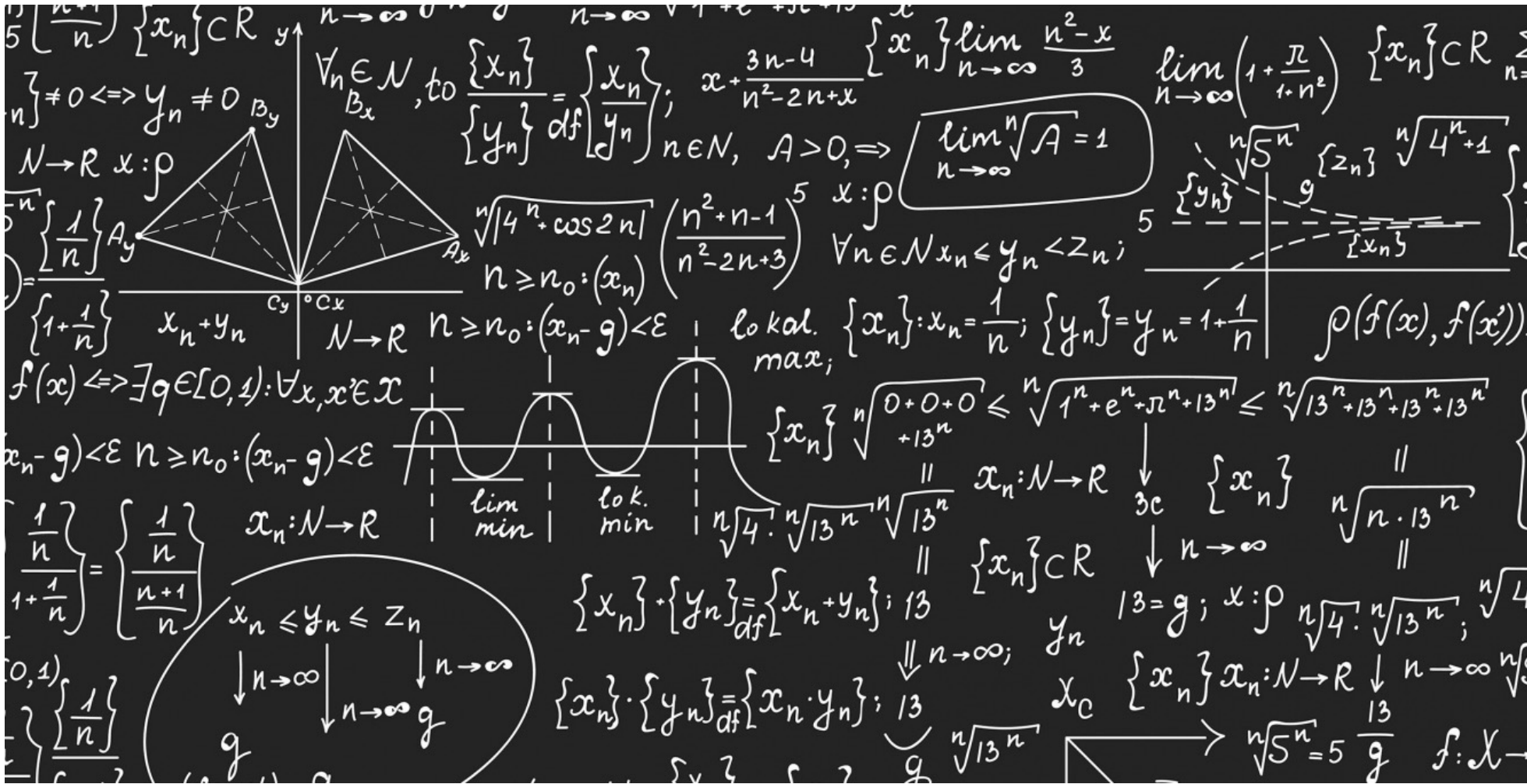
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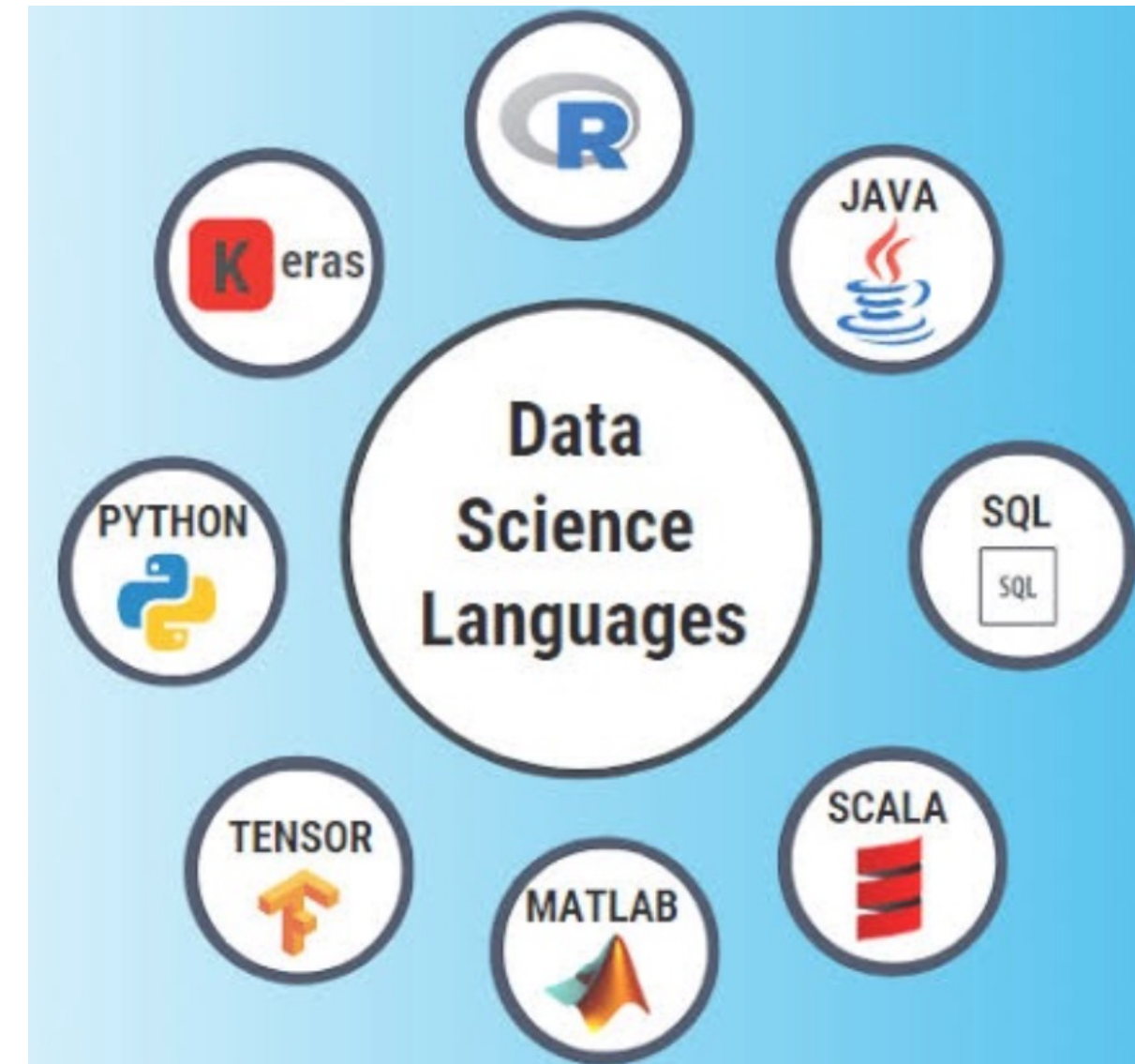
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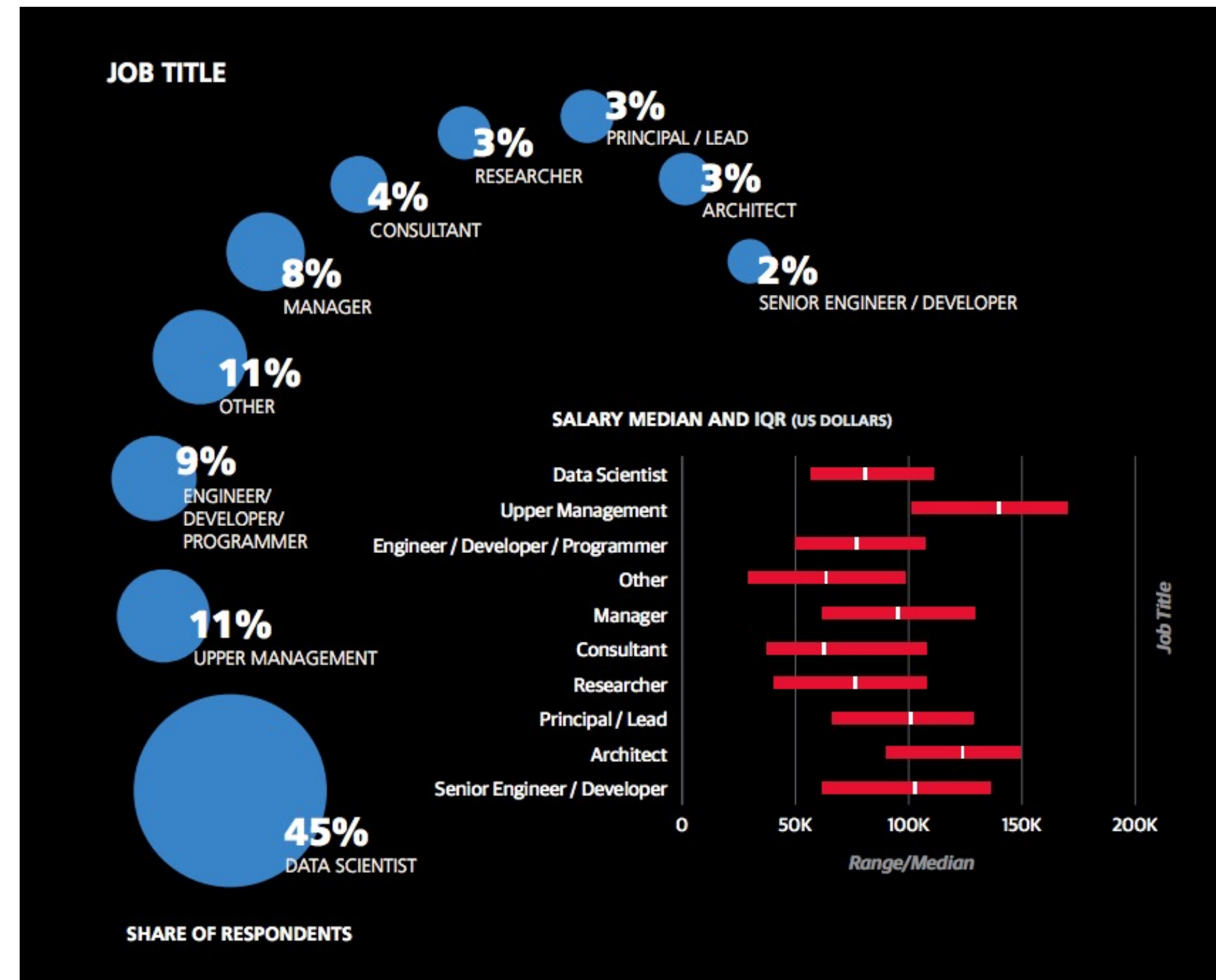
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# What Salary Can a Data Scientist Earn?

## Data Scientist Salary by Job Title

- According to an O'Reilly data science salary report, 45 percent of those surveyed said they hold the title of “data scientist.”
- In general, the more a data science professional engages in managerial tasks, the higher the salary.



# Where Do Data Scientists Work?

Government

Academia

- Research and development
- Colleges and universities
- ...

Industry

- Software companies
- Car companies
- Delivery companies
- ...



# Related Jobs in Data Science

Data analyst

Research scientist

Machine learning engineer

Big data engineer

...

## Data Scientist Job Titles Include:

- Product analyst
- Data analyst
- Research scientist
- Quantitative analyst
- Machine learning engineer
- Data engineer
- Big data engineer
- Back-end engineer
- Natural language processing engineer
- Business analyst
- Statistician
- Economist
- Applied scientist
- Operations research scientist
- Research scientist
- Research engineer
- Machine learning scientist
- Product scientist
- Business intelligence analyst
- Natural Scientist

# Challenges in Data Science Careers

Insights not Used in Decision Making

Data Privacy, Veracity, Unavailability

Limitations of tools to scale/deploy

Wrong Questions Asked



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# Thank You