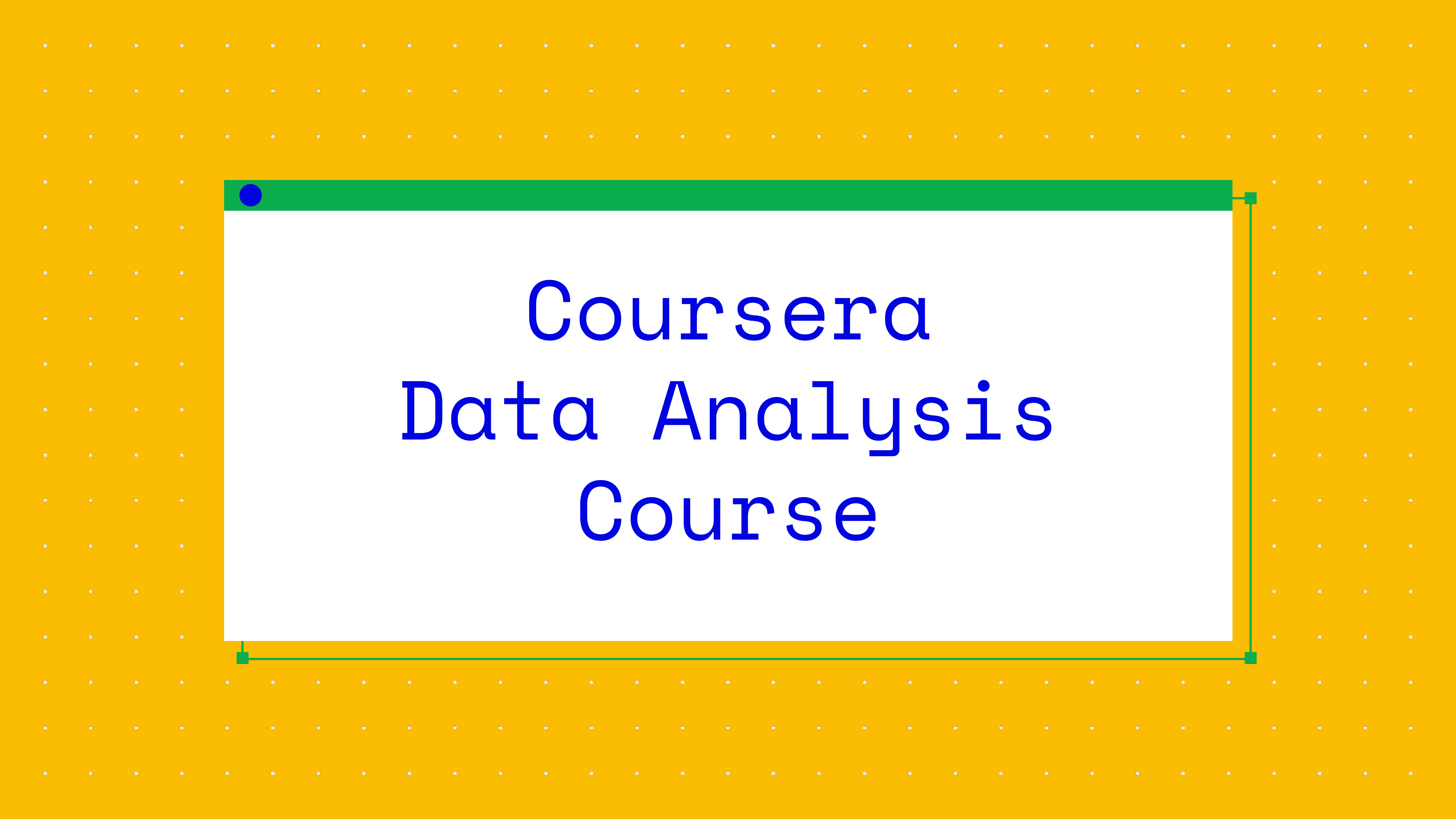


Advanced Data Analytics

Agenda

1. Coursera Data Analysis Course
2. Data Analyst Average Salaries
3. Different Jobs
4. Job Title Confusions
5. Why Data Analytics?

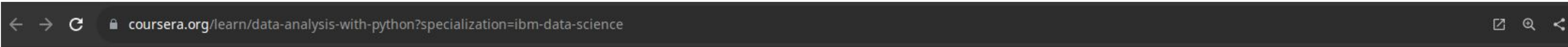


Coursera Data Analysis Course

Coursera Data Analysis Course Link

<https://www.coursera.org/learn/data-analysis-with-python?specialization=ibm-data-science>

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★★★★★ 4.7 16,233 ratings | 👍 93%



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Step 2 of 2

7-day Free Trial

Data Analysis with Python is part of the larger IBM Data Science Professional Certificate. Your 7-day free trial includes:

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Audit the course



Average Salaries

Data Analyst Average Salaries: Egypt 16/02/23

Experience

All years of Experience



Industry

All industries



EGP 25,000 / mo



Very High Confidence

Total Pay

EGP 7,000 / mo

Base Pay

EGP 18,000 / mo

Additional Pay

EGP 25,000 / mo



EGP 15K

EGP 46K



EGP 8K

EGP 110K



Most Likely Range



Possible Range

According to GlassDoor

Data Analyst Average Salaries: Egypt 26/09/23

Experience

All years of Experience



Industry

All industries



EGP 27,000 / mo



Very High Confidence

Total Pay

EGP 9,000 / mo

Base Pay

EGP 27,000 / mo



EGP 16K - EGP 45K

EGP 18,000 / mo

Additional Pay



EGP 7K

EGP 124K



Most Likely Range



Possible Range

Data Scientist Average Salaries: Egypt 24/09/2023

Experience

All years of Experience



Industry

All industries



EGP 35,010 / mo



Very High Confidence

Total Pay

EGP 12,000 / mo

Base Pay

EGP 23,010 / mo

Additional Pay

EGP 35,010 / mo



EGP 18K

EGP 63K



EGP 12K

EGP 95K



Most Likely Range

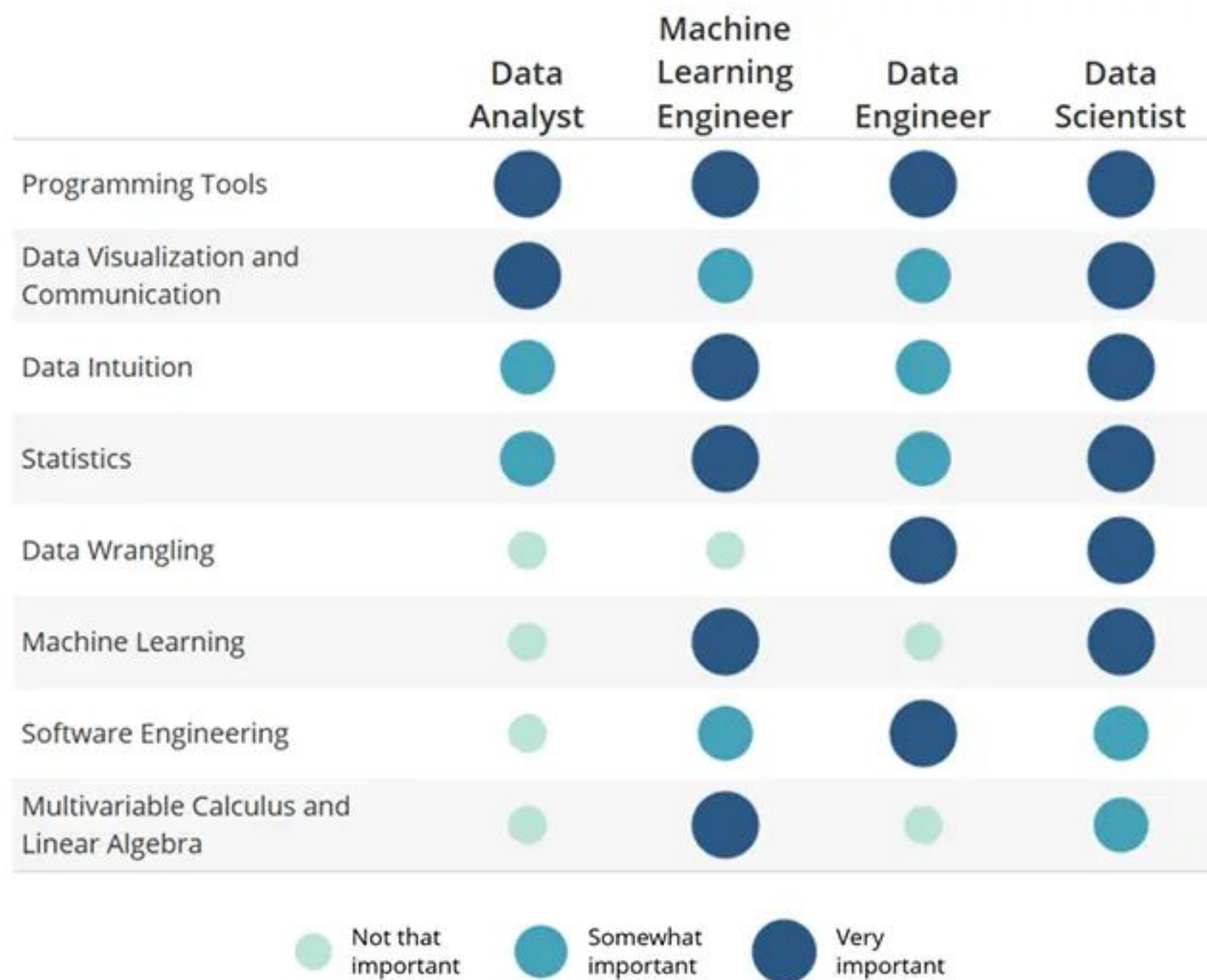


Possible Range



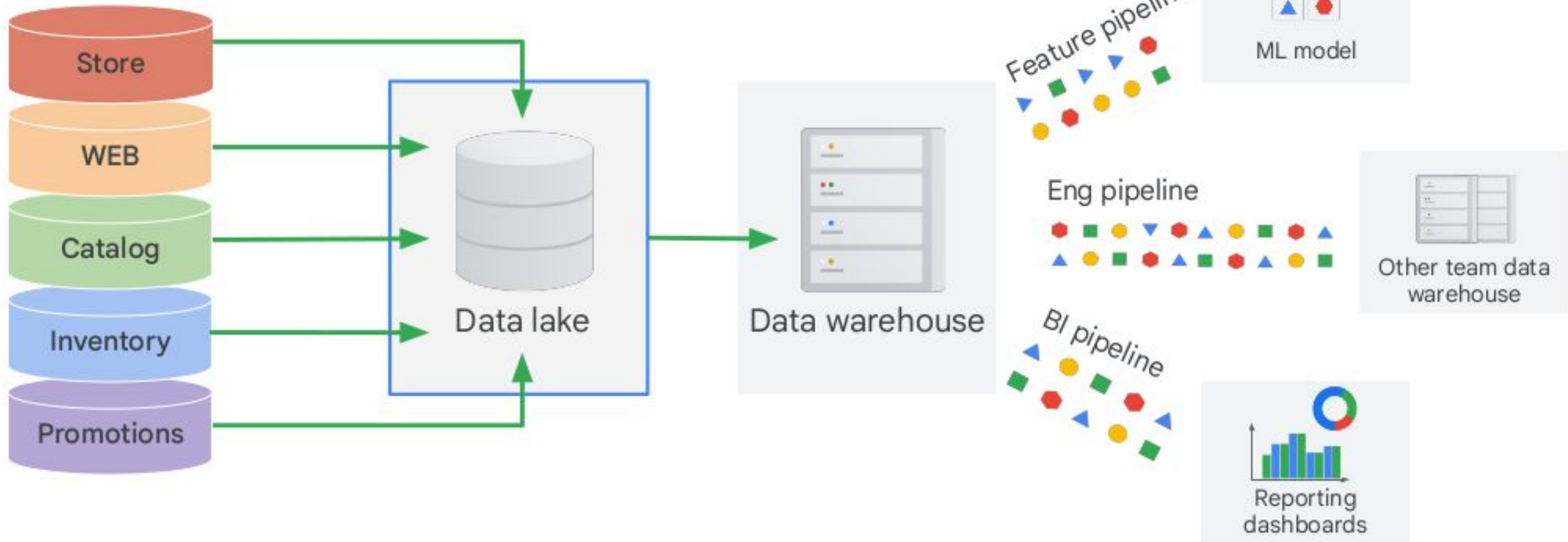
Data Science Jobs

Data Science Jobs: Long-lasting Career



Data Science Jobs: Where is the role of each?

Operational systems



Data Science Jobs: 1) Data Analyst

- Job might consist of tasks like:
 - pulling data out of **SQL** databases
 - becoming an **Excel** or **Tableau** master
 - producing basic **Data Visualizations** and **Reporting Dashboards**
 - On occasion:
 - analyze the results of an **A/B Test**
 - take the lead on company's **Google Analytics account**
- Some companies: **Data Scientist** is synonymous to **Data Analyst**

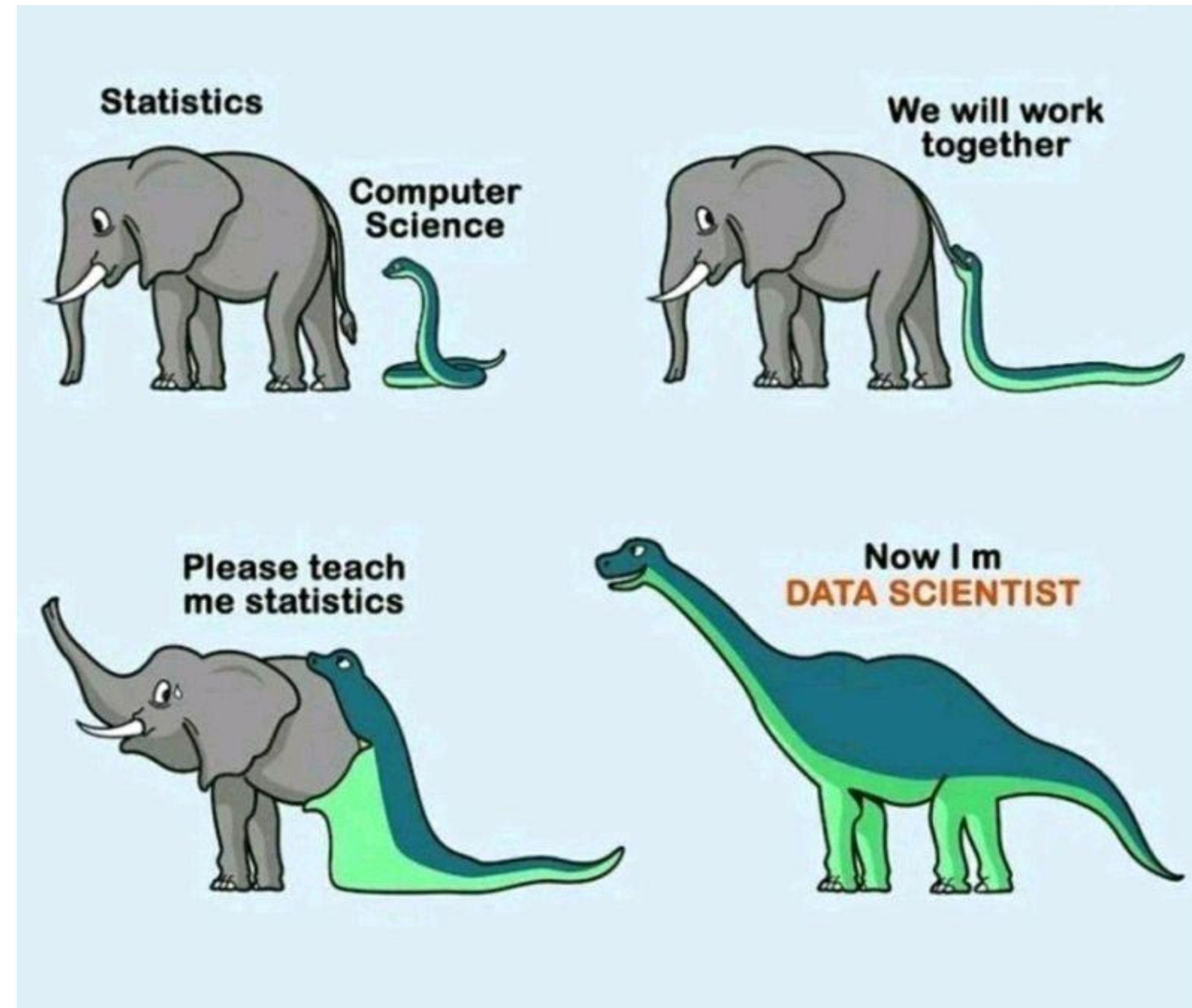
Data Science Jobs: 2) ML Engineer

- Some companies: **data** or **data analysis platform** is the product
 - so, **Data Analysis** or **ML** can be pretty intense
 - so, there is a need for someone who:
 - has a formal mathematics or statistics background
 - is hoping to continue down a more academic path
- **ML Engineers**
 - often focus more on producing great **data-driven products**

Data Science Jobs: 3) Data Engineer

- Some companies: have **lot of traffic** and **large amount of data**
 - so, there is a need for someone who:
 - set up lot of **data infrastructure** that the company will need moving forward
- Job postings listed under **Data Scientist** and **Data Engineer**
 - strong software engineering skills are more important
 - heavy statistics and ML expertise are less important

Data Science Jobs: 4) Data Scientist

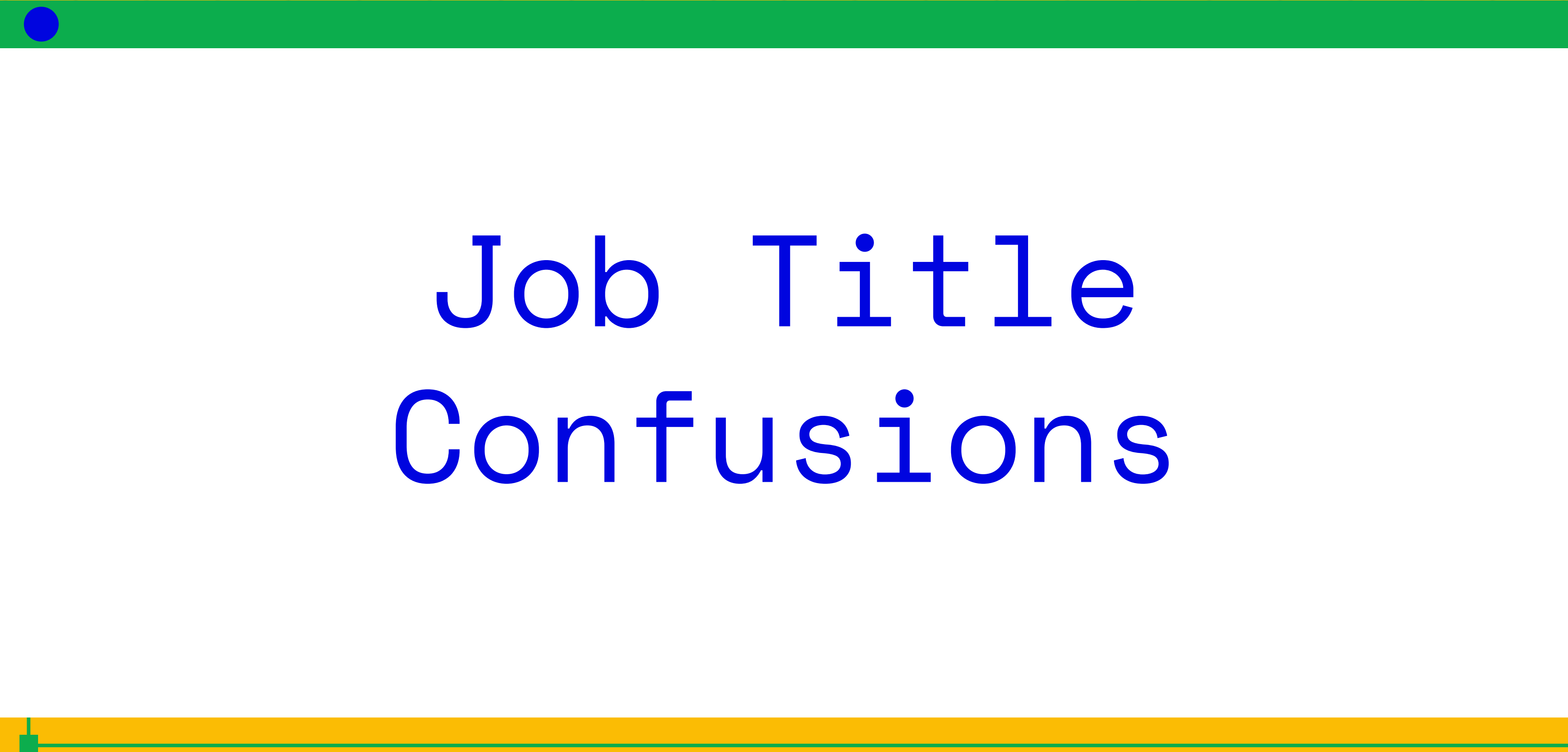


Often used as a blanket title

- to describe jobs that are drastically different

Data Science Jobs: 5) Data Generalist

- Some companies: look 4 **Generalist** to join data scientists team
 - these companies cares about data but probably isn't a data company
- **Data Generalist** most important skills:
 - familiarity with tools designed for **Big Data**
 - experience with messy, real-life datasets
- **Data Generalist** can:
 - perform analysis
 - touch production code
 - **Visualize Data**



Job Title Confusions

Confusion 1: Constant Evolution of Industry - 1



The **Statistician** only used **Statistics**

Confusion 1: Constant Evolution of Industry - 2



Statistician

25 years ago

responsible for:

- gathering and cleaning data sets
- applying statistical methods
- + growth of data
- + radical improvement of technology
- extracting patterns from data

The image shows a stylized icon of a person in a suit and red tie, representing a statistician. To the right of the icon, a list of responsibilities is provided, including gathering and cleaning data sets, applying statistical methods, and extracting patterns from data. The list also includes two green bullet points: '+ growth of data' and '+ radical improvement of technology'. The entire content is enclosed in a light gray box with a dark gray border.

Then, the **Statistician extracted patterns** from the data

Confusion 1: Constant Evolution of Industry - 3



Hence, the **Statistician** began using what is called **Data Mining**

Confusion 1: Constant Evolution of Industry - 4



Data mining specialist

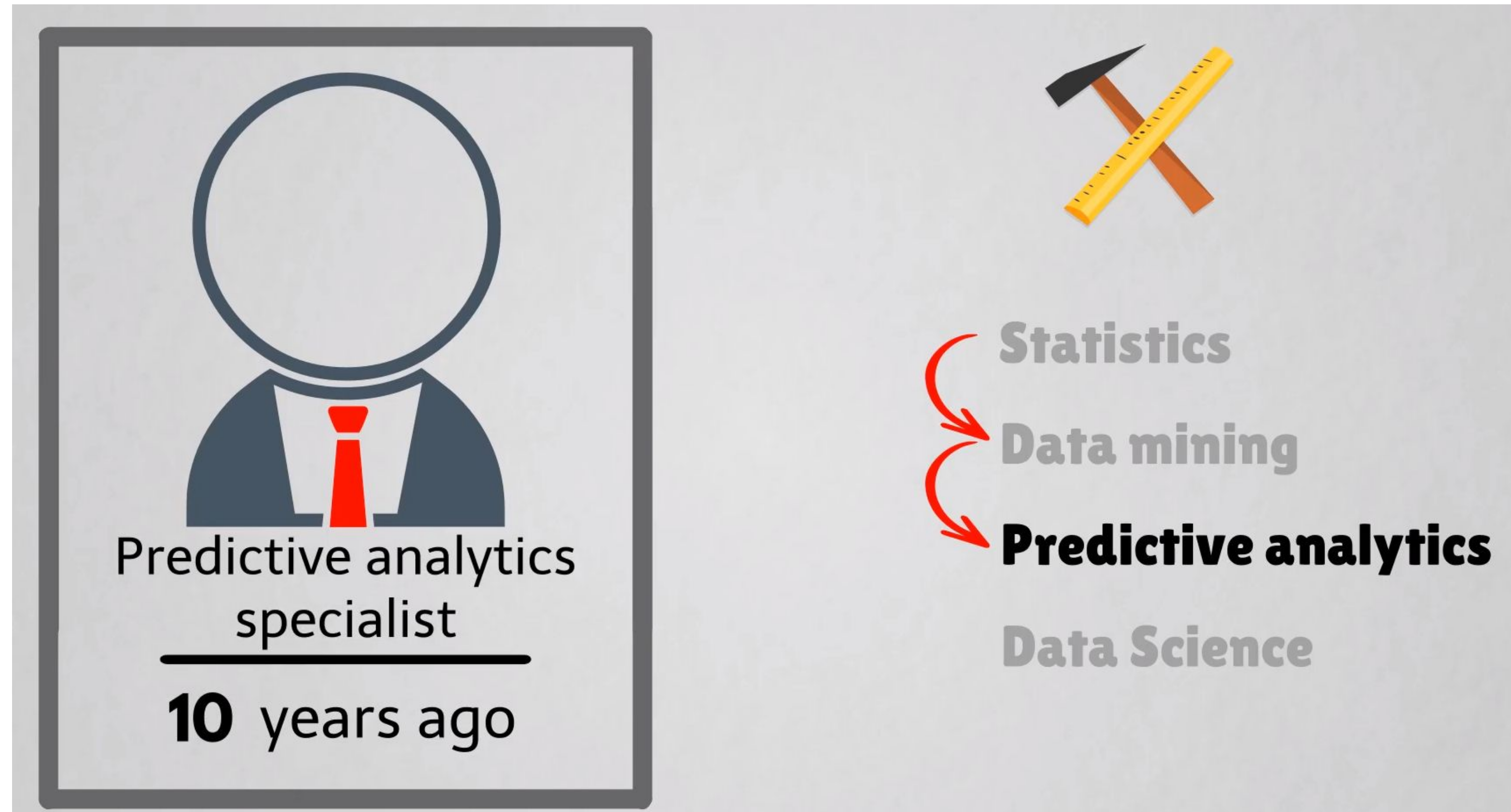
20 years ago

responsible for:

- gathering and cleaning data sets
- applying statistical methods
- + growth of data
- + radical improvement of technology
- extracting patterns from data
- + new models
- performing more accurate forecasts

Then, the **Statistician** performed **more accurate** forecasts

Confusion 1: Constant Evolution of Industry - 5



Hence, the **Statistician** began using what is called **Predictive Analytics**

Confusion 1: Constant Evolution of Industry - 6



Now, the **Statistician** has the title **Data Scientist** without changing the job

Confusion 2: HR Manager - Example 1

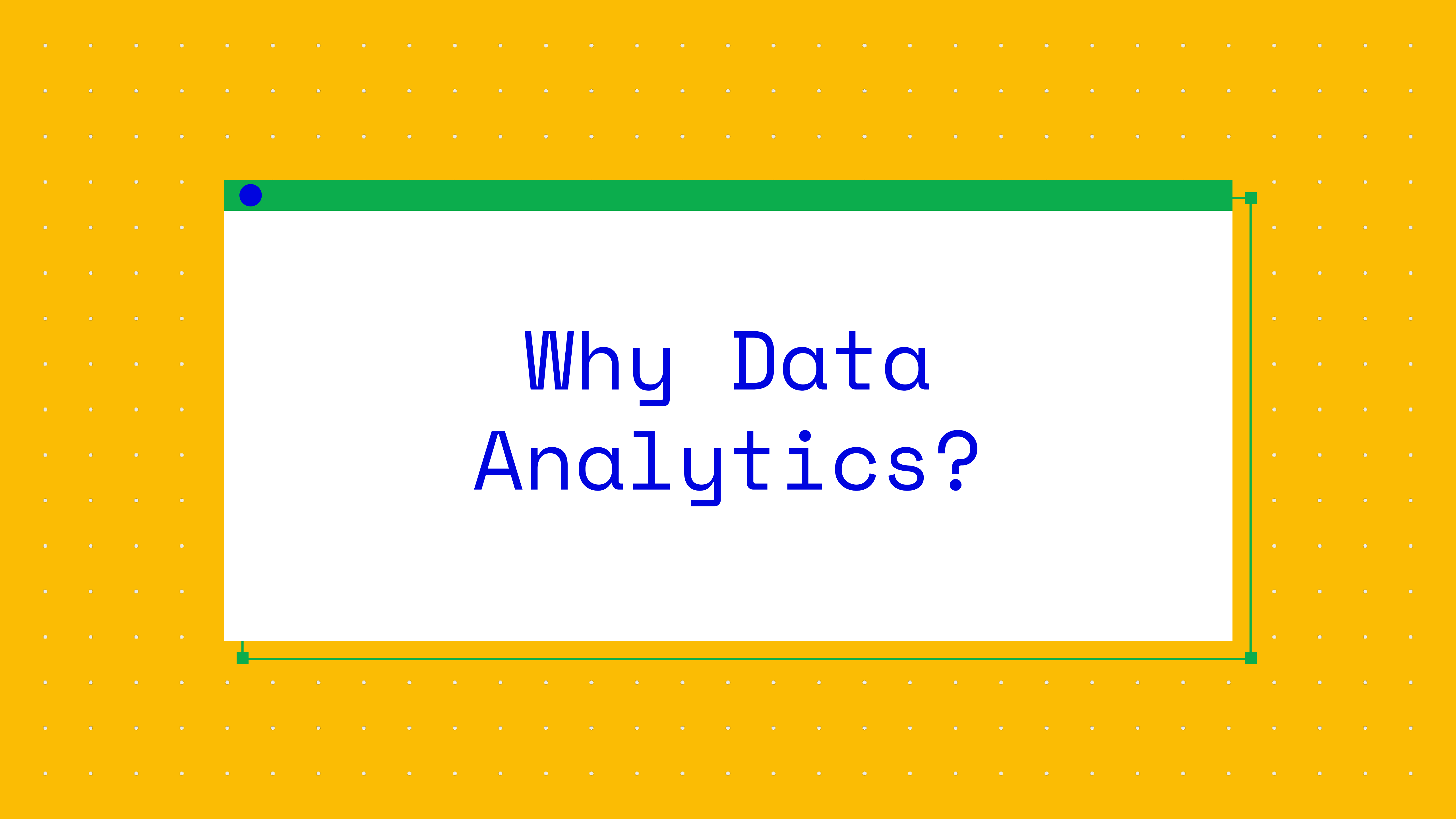


HR Manager offers a job title different from the actual job

Confusion 2: HR Manager - Example 2



HR Manager offers a job title different from the actual job



Why Data Analytics?

Why Data Analytics?

- Data is everywhere
- Play an important role in:
 - Discovering useful information
 - **Answering questions** from the data
 - **Predicting future** or unknown information

Example: Sell a Car (1 / 2)

Tom wants to sell his car

Tom



How much
money should he
sell his car for?

The price he sets should not be too high,
but not too low either.

Example: Sell a Car (2 / 2)

- How can we help Tom to know the best price for his car:



- Is there data on the prices of other cars and their features?
- What features of cars affect their prices?
 - Color? Brand? Horsepower? Something else?

Links

<https://github.com/FCAI-B/da>

References

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 - 4 Types of Data Science Jobs
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