



Thanks for joining we will start at 🕒

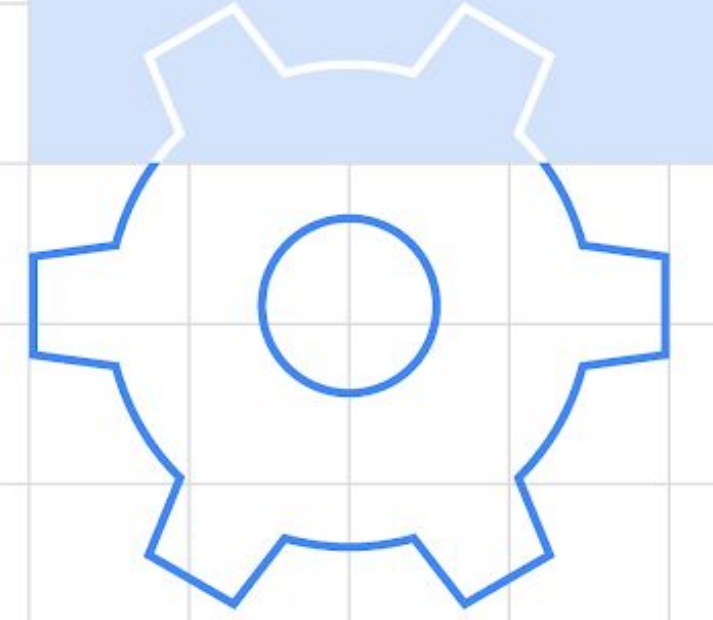


Google Developer Students Club
Institute of Business Administration

Data Science for Everyone



NABEEL AHMED

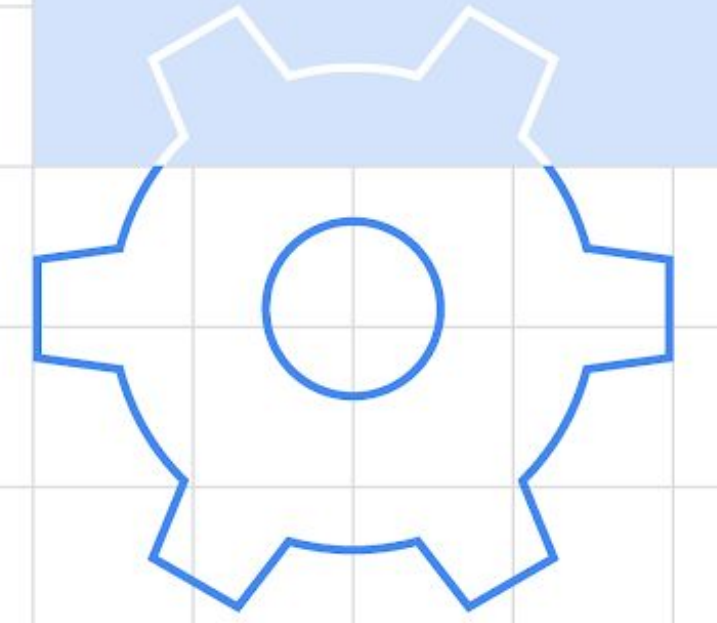


- Lead - **GDSC IBA**
- Associate Software Engineer - **10Pearls**
- Co-Founder - **Gradient**
- **ML/ DL** Practitioner
- **Data** Lover

Today's Agenda

- **Session # 1: Introduction to DSC Data Analytics**

- Meet and Greet
- Understanding the purpose of Data Analytics.
- Introduction to Anaconda and Jupyter.
- Installation Steps
- Jupyter Notebook /Colab
- Introduction to GitHub.
- Python “Hello World” Program!



Hello!

I am Nabeel Ahmed

I love to

Solve Problems, build amazing products, meet and connect with people from different disciplines.

One word that describes me

Enthusiast

My favorite Google Technology is

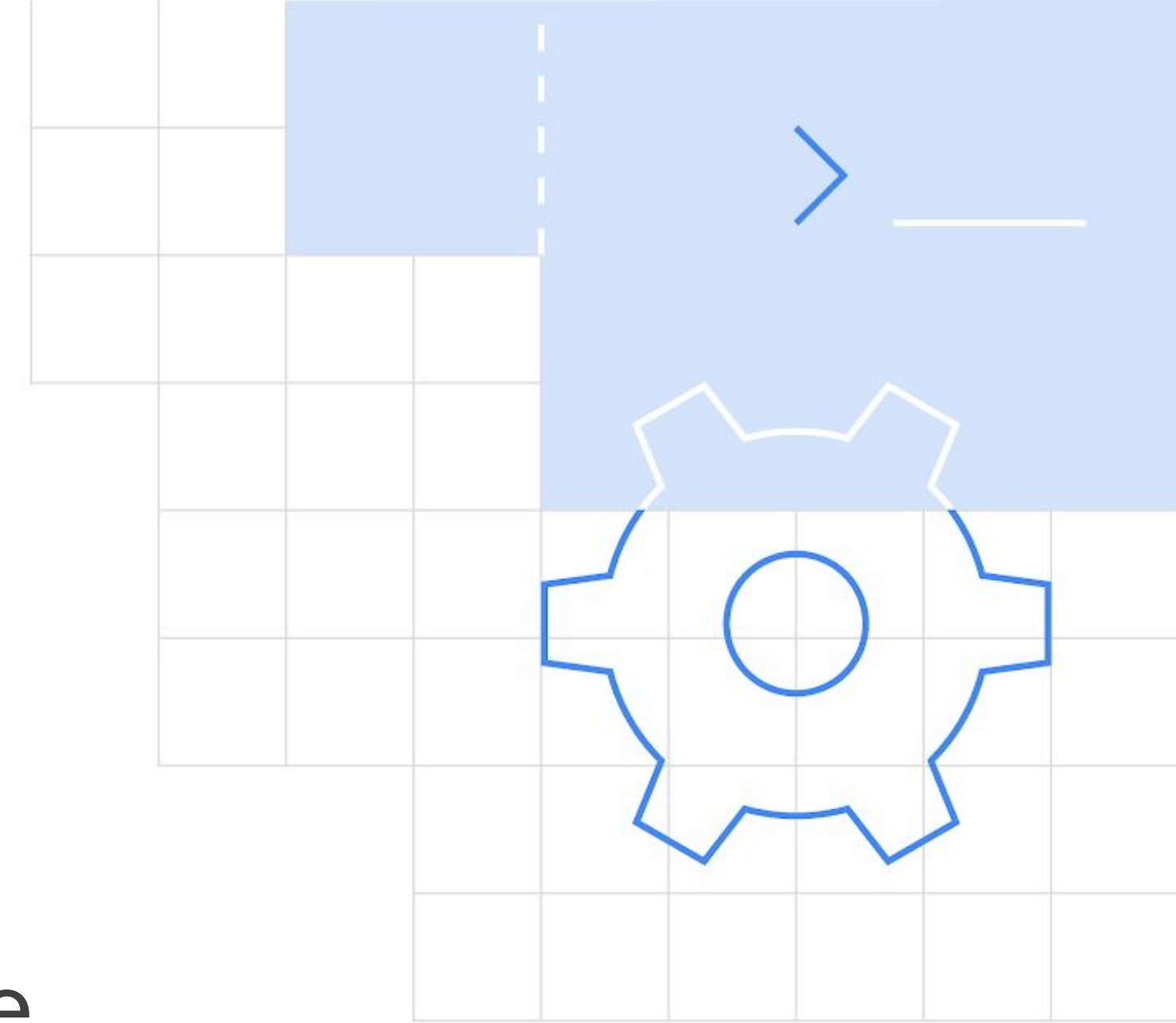
Google tensorflow because how it has simplified complex architecture allowing any novice developer to build and deploy scalable ML/DL models. And definitely flutter 🥰



What our **vision** promised:

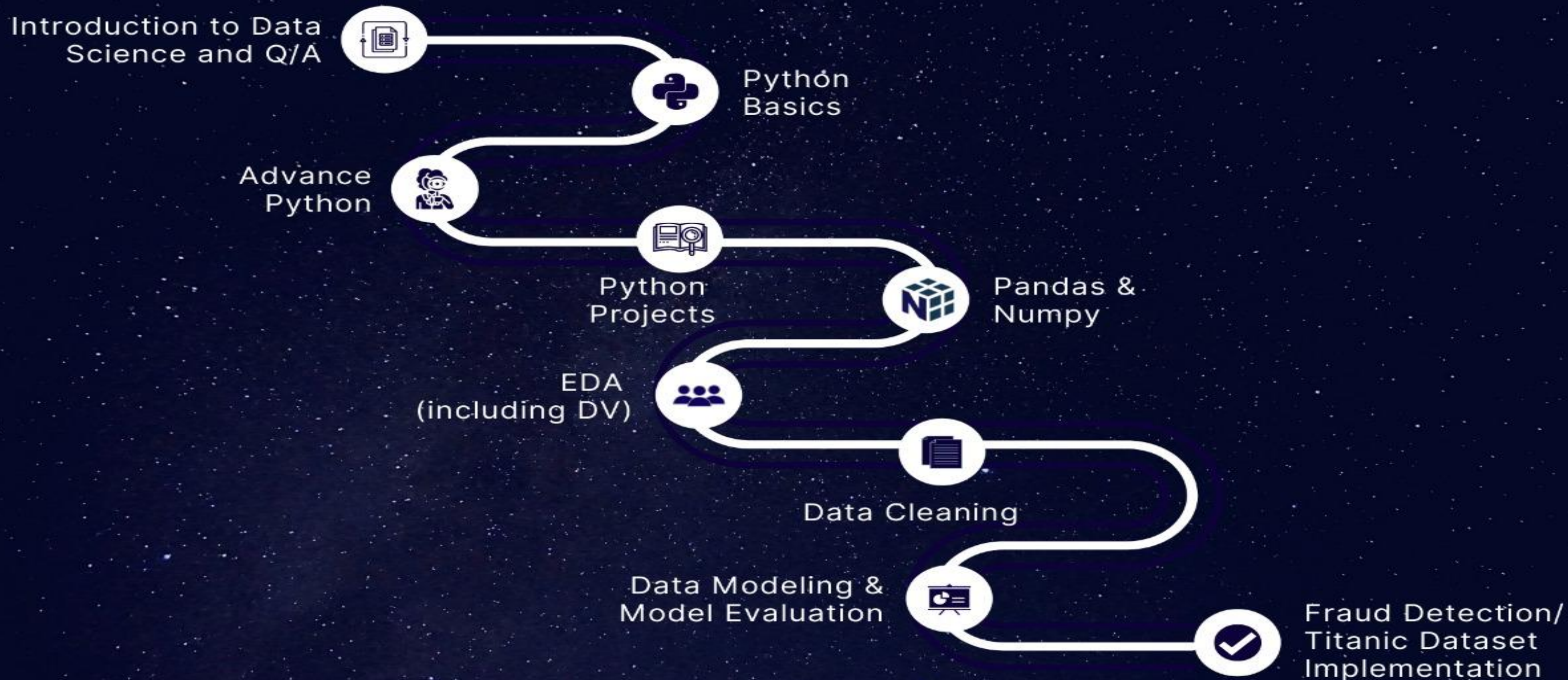
- Instill importance of perceptual skill learning
- Showing the power of Python in Data Analytics and Machine Learning
- An effort for students, from students

Without having to **pay anything**, except their interest and dedication.

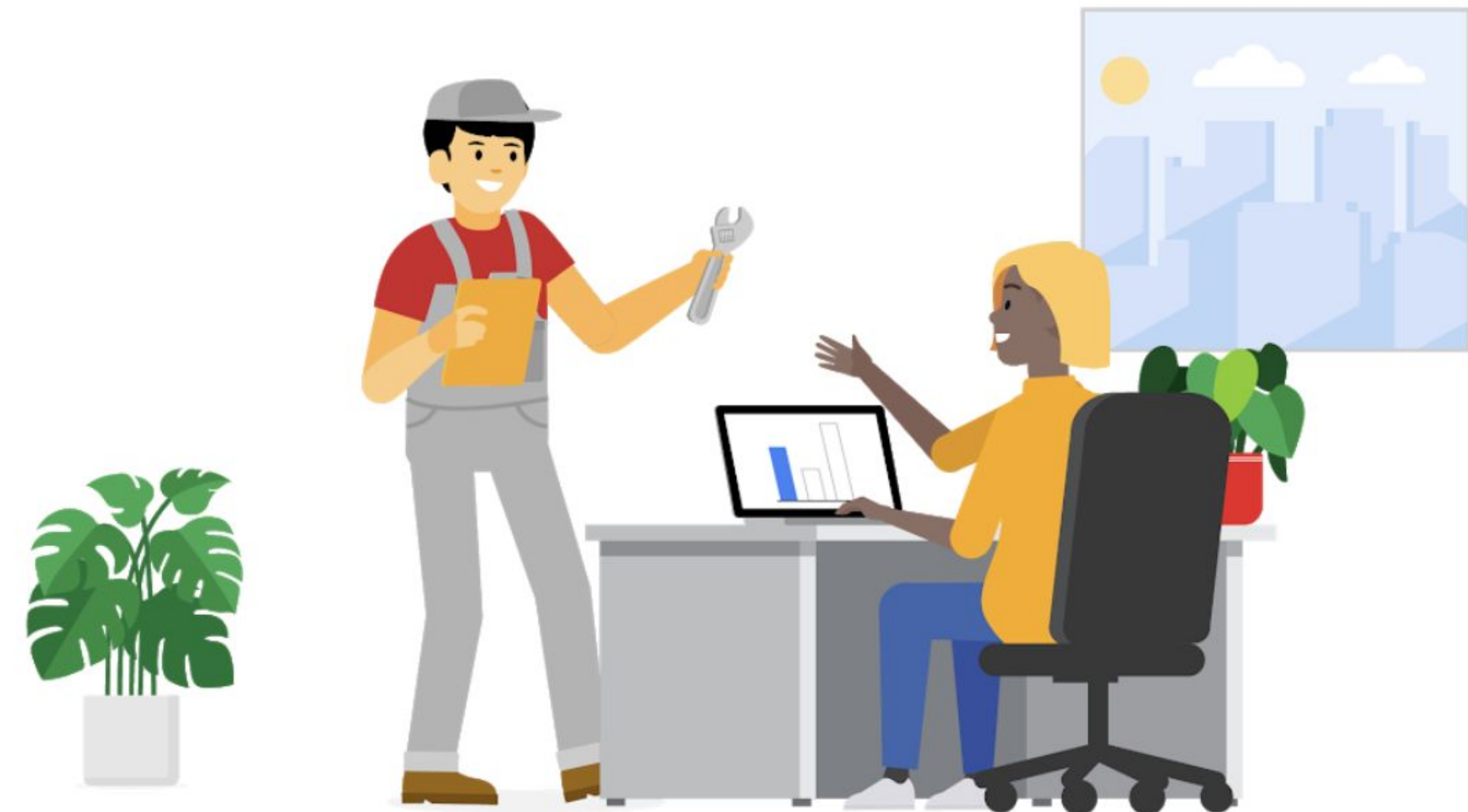
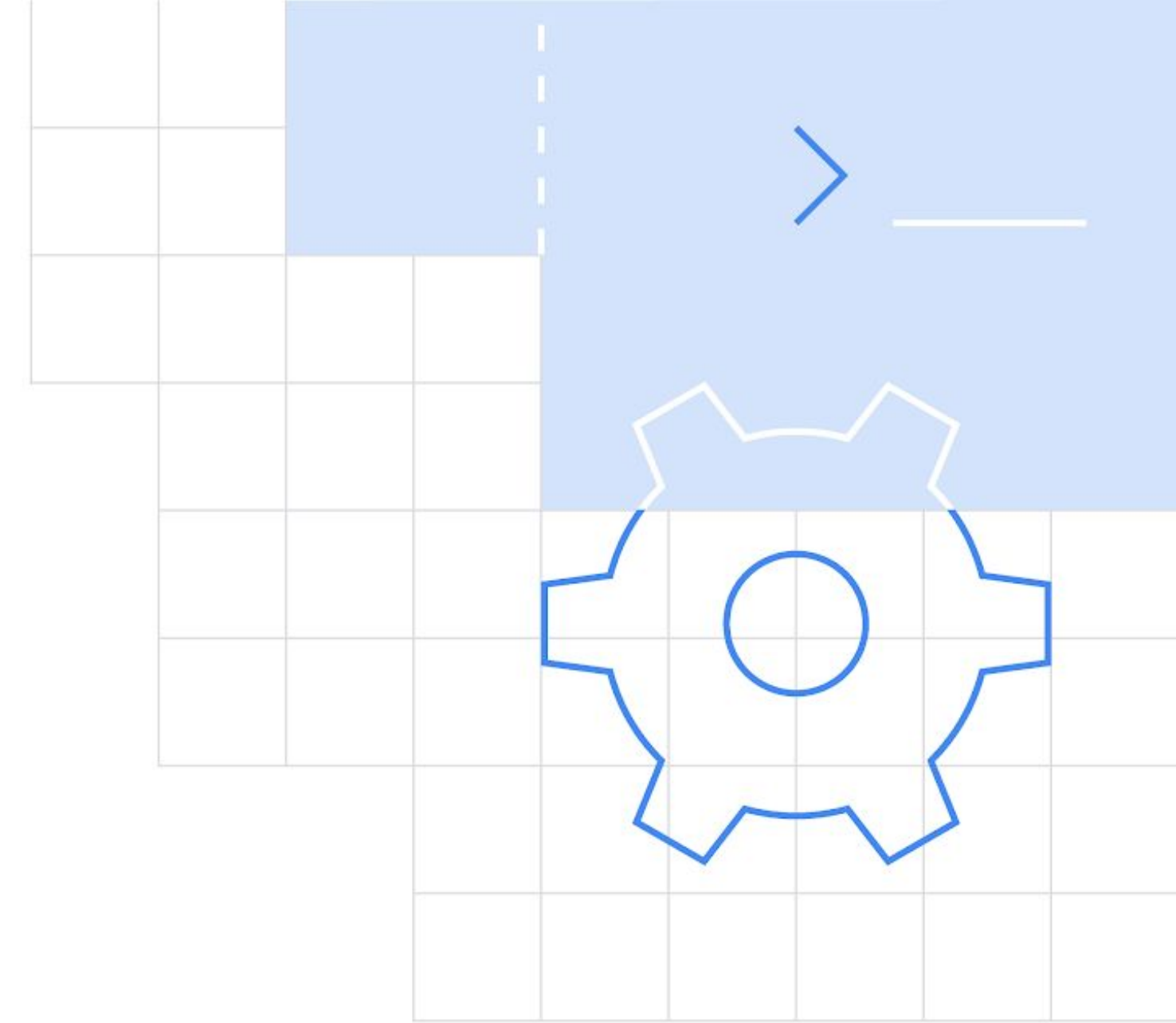




Data Science for Everyone



Your Instructor(s)





Google Developer Students Club
Institute of Business Administration

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NABEEL AHMED



ZOHAIR ABBAS



ZOHAIB AZAM



ABDUL REHMAN ABBASI



ABDUL AHAD IMTIAZ

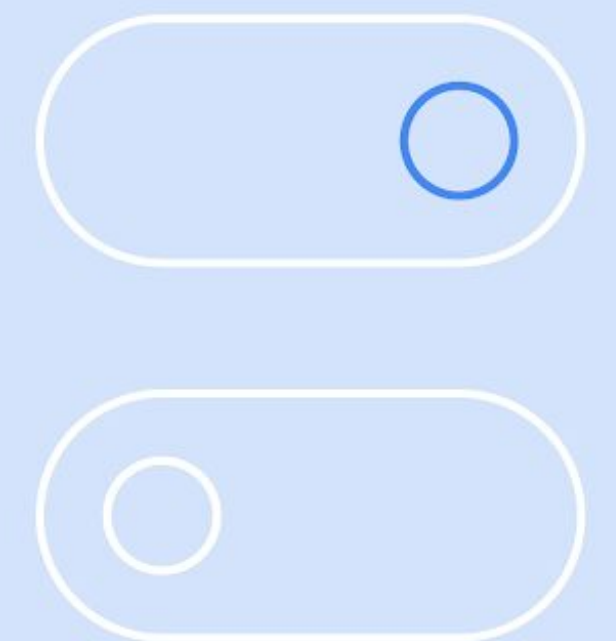


MUHAMMAD ARHAM

WHO AM I?



- Technical Lead - GDSC IBA
- Google certified Data Analyst
- SAP Functional Analyst - 3STEM
- Deputy Team Lead - TCF ADP
- ML/DL Enthusiast
- Loves to bring useful insights out of Data.



WHO AM I?



- Technical Lead - GDSC IBA
- Google certified Data Analyst
- Article Writer - Gradient
- Statistics & Probability - Freelancer

WHO AM I?



- Technical Head - GDSC IBA
- IT Consultant- 3STEAMP
- SAP - Techno-Functional Consultant

WHO AM I?

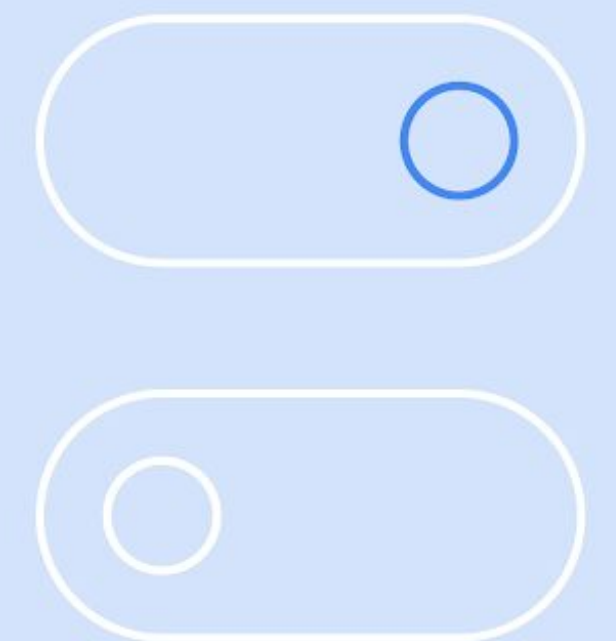
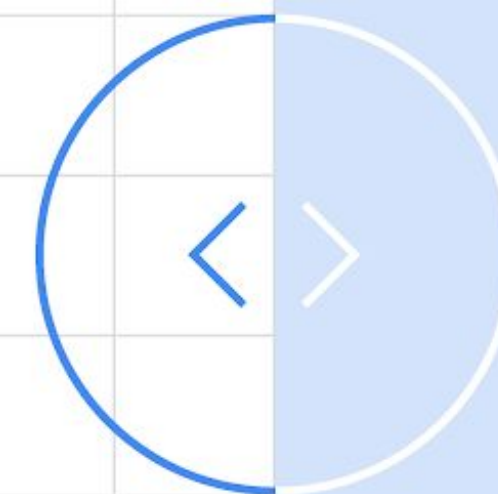


- Tech Lead at **GDSC IBA**
- Head of Design of **Data Team**
- Article Writer and Editor at **Gradient**
- Former data analyst at **Falcon I**
- Mathematics - Freelancing and Teaching

WHO AM I?



- Technical Lead - **GDSC IBA**
- Python Developer
- Freelance Python Tutor
- ML / DL / CV Enthusiast



But What is Data Science?

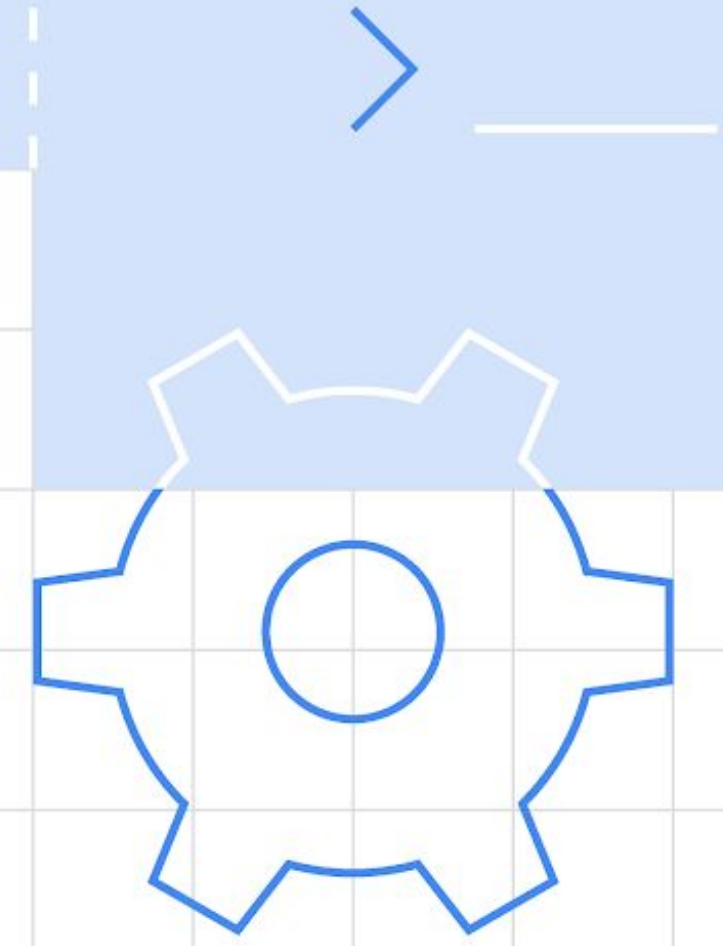


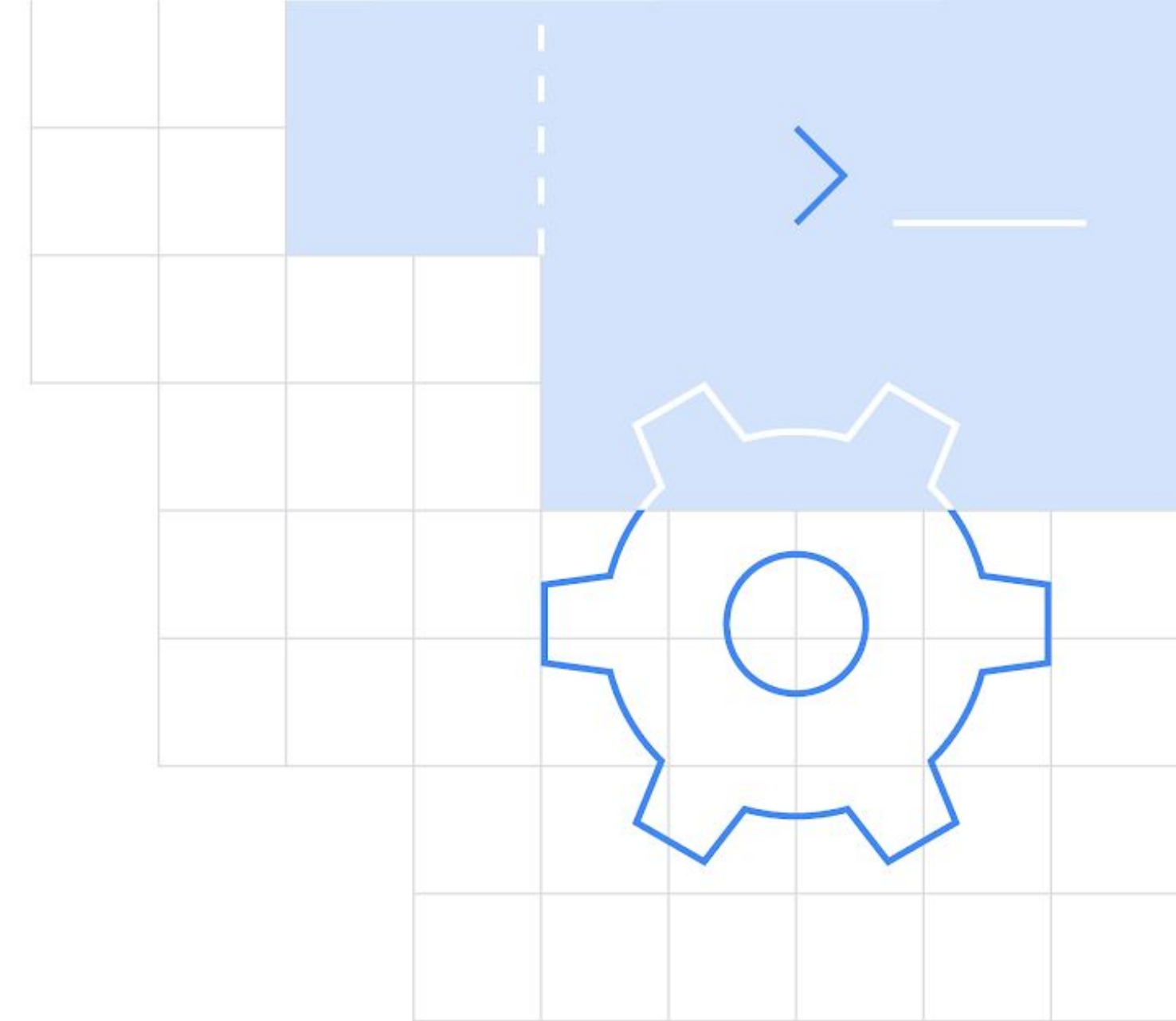
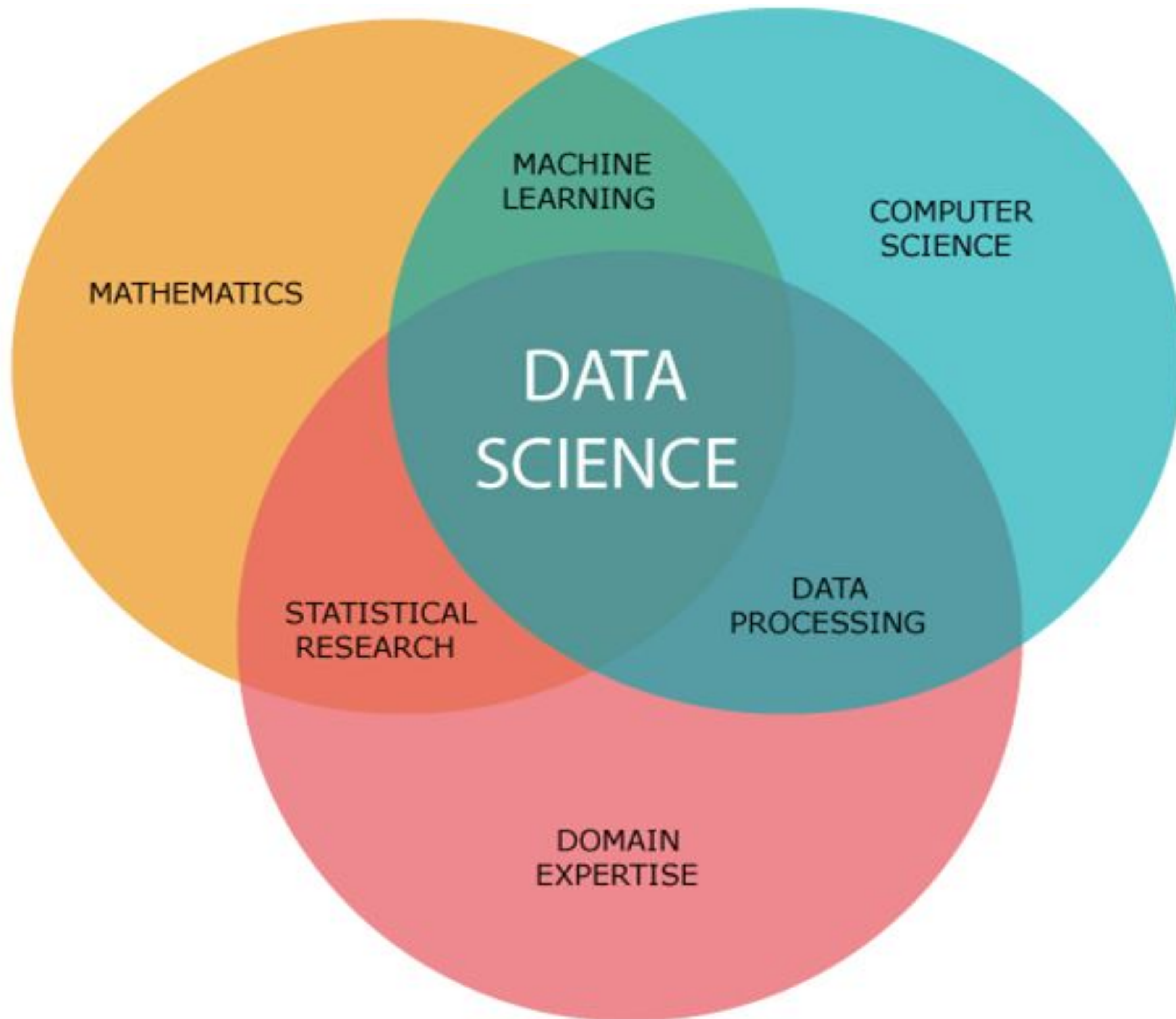
What is Data Science?

Data science is the study of **data**. It involves developing methods of recording, storing, and analyzing **data** to effectively extract useful information/insights. The goal of **data science** is to gain insights and knowledge from any type of **data** — both structured and unstructured.

What skills people think are needed

- There is a stigma created around data science primarily by job postings, recruiters and even data scientists themselves, that this is some exclusive domain for selected individuals who can write thousands of lines of code and stare at screens all day.
- Believe me it isn't like that! You don't need to be a **code ninja**, you don't need to be a **grandmaster at algorithmic design**, infact you don't even **need to know how to code**.





Data Analytics

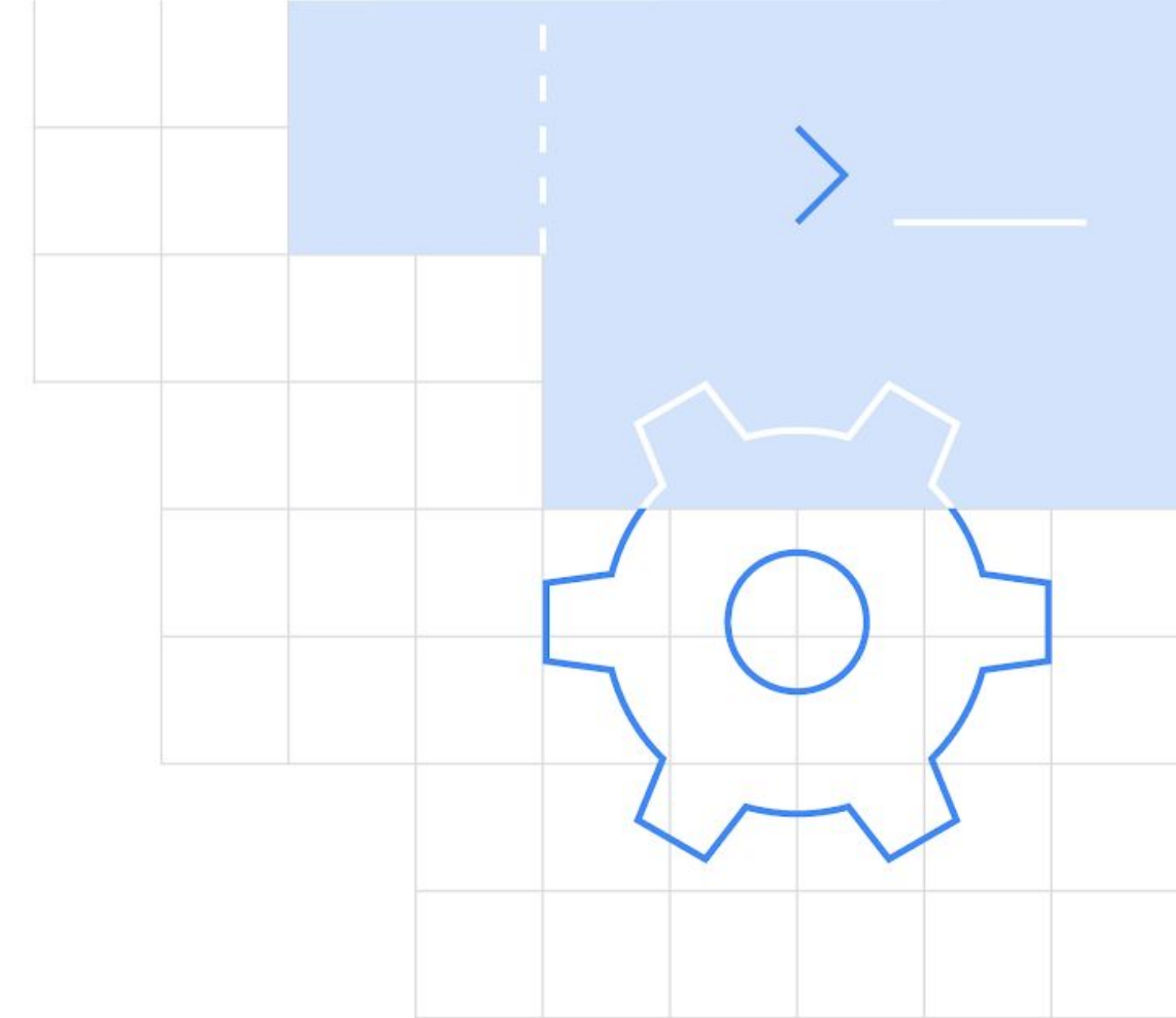


Why Data Analytics?

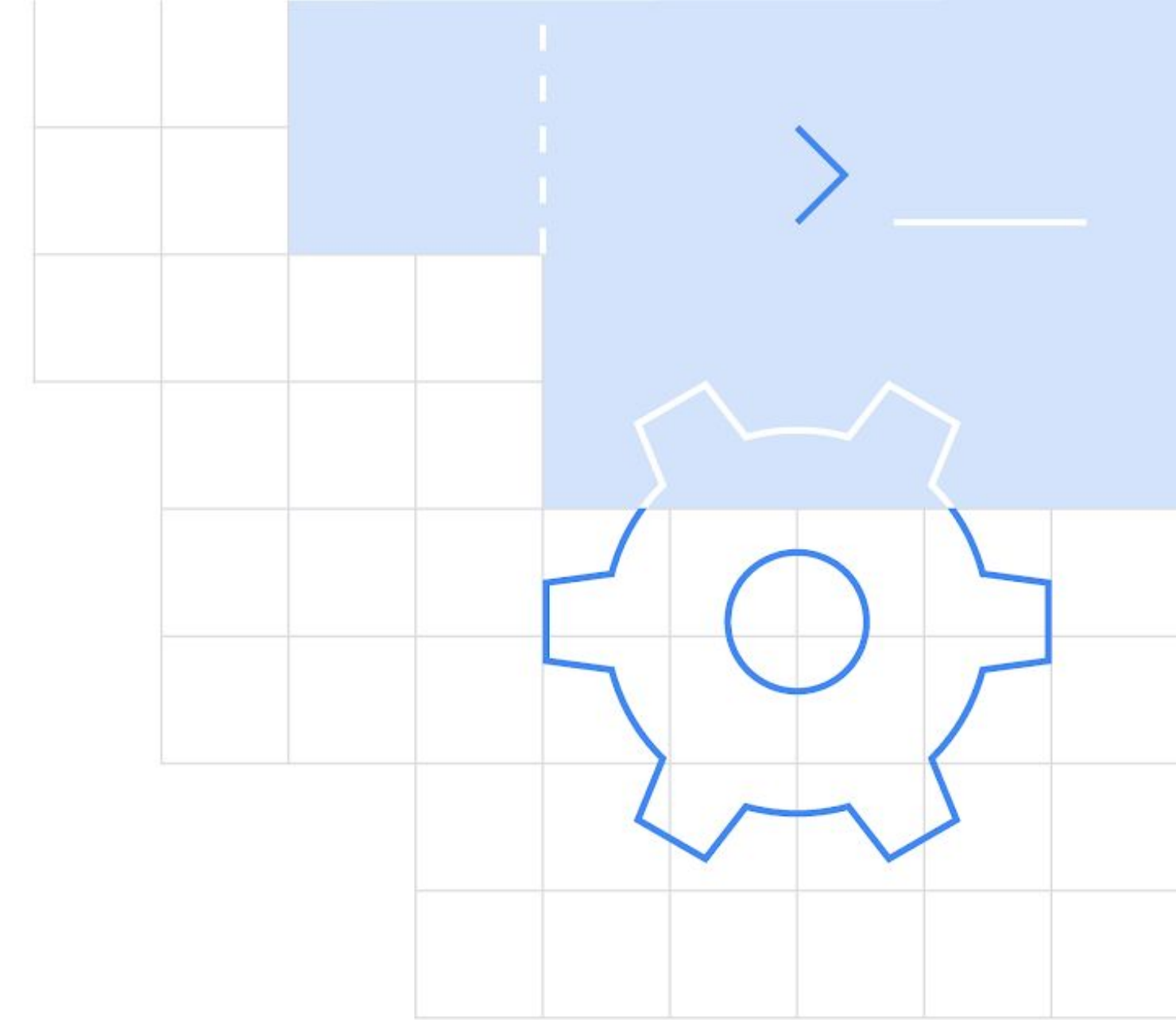
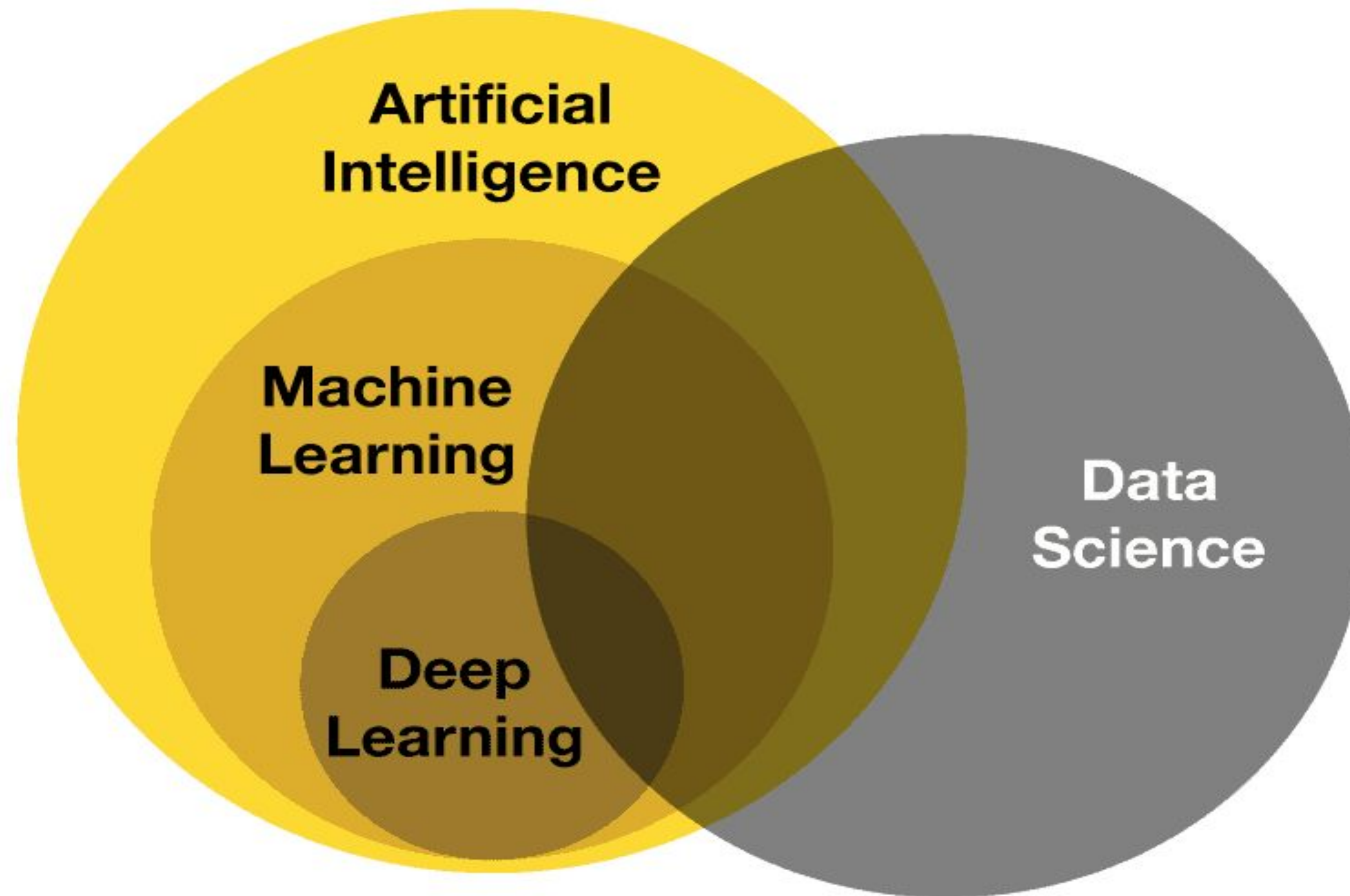
EVERY DAY WE CREATE
2,500,000,
000,000,
000,000
(2.5 QUINTILLION) BYTES OF DATA

90% of the world's data has been generated in the last 5 years.

- More than 300 million photos get uploaded per day.
- Every minute there are 510,000 comments posted and 293,000 statuses updated.
- Every person, organization and country produce and stores data. But with all this data nobody knows how to make sense of it. This is where Data Scientists come in, they are the heroes who organize, manipulate and extract insights from the data.



AI vs ML vs DL vs DS

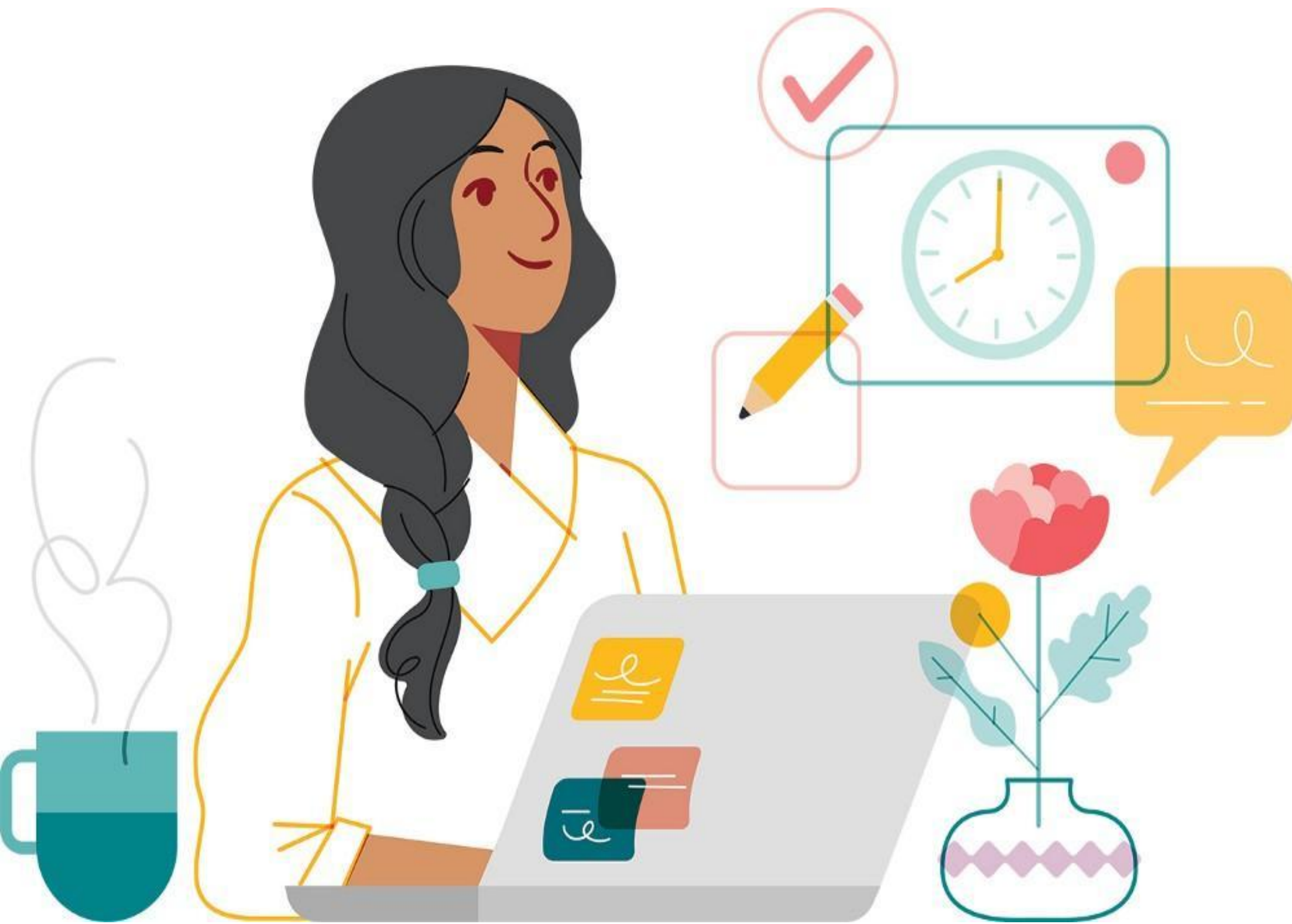


Who is a Data Scientist?



- Maths & Statistics
- Domain Knowledge
- Computer Science (IT)
- Communication Skills

Career Prospects in Data Science?



- Data Analyst
- Data Engineer
- AI Engineer
- ML Engineer
- Business Analyst
- Data Architect
- Data Scientist

BUT What **Skills** do I Really **NEED**?

Philosophically you need to have a love for data, for extracting insights from numbers and an unlimited amount of enthusiasm.

Logically you need :

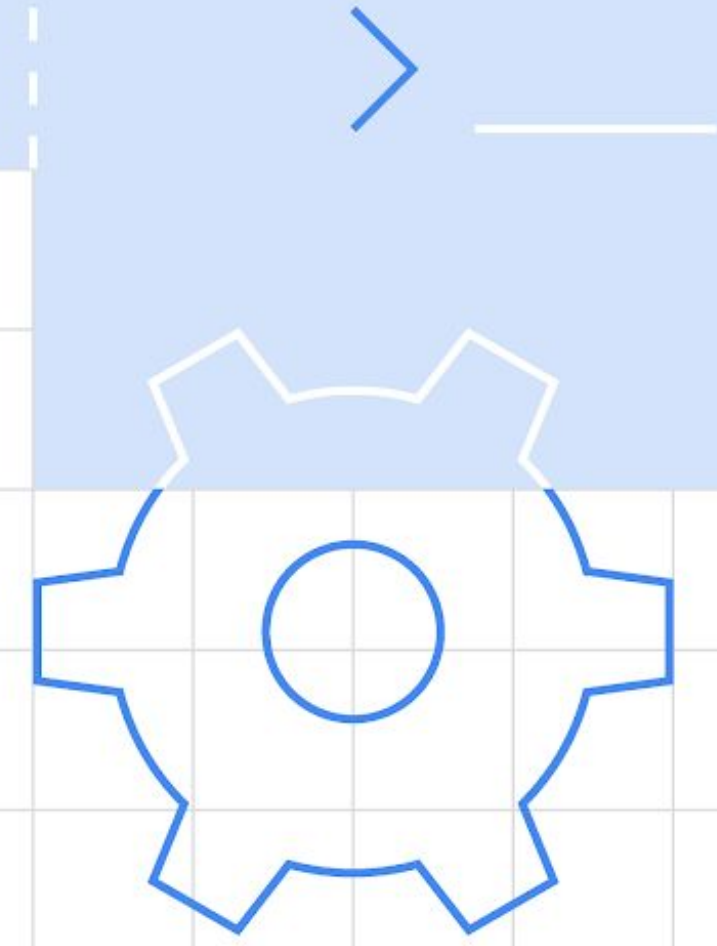
1. **Creativity** and **Strategy**
2. Statistical Knowledge
3. Domain Knowledge for the market you are targeting
4. Tools such as **Python/R, Excel, Power BI, SQL and Tableau**



Yes, that is it. **You too can become a data scientist.**

BUT What about my **DEGREE?**

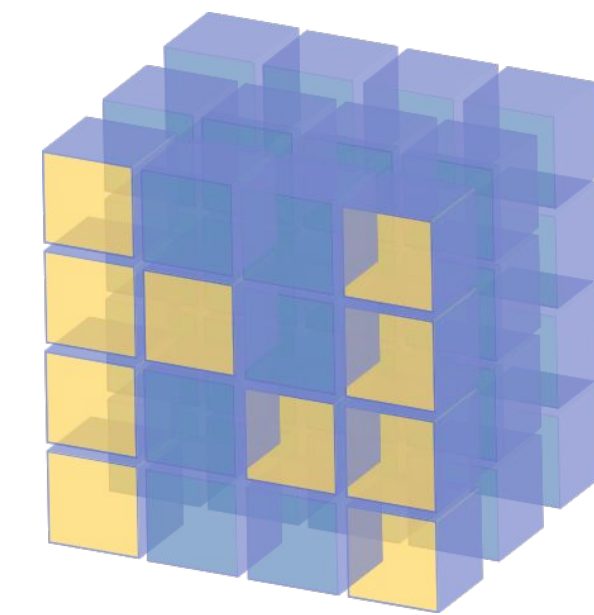
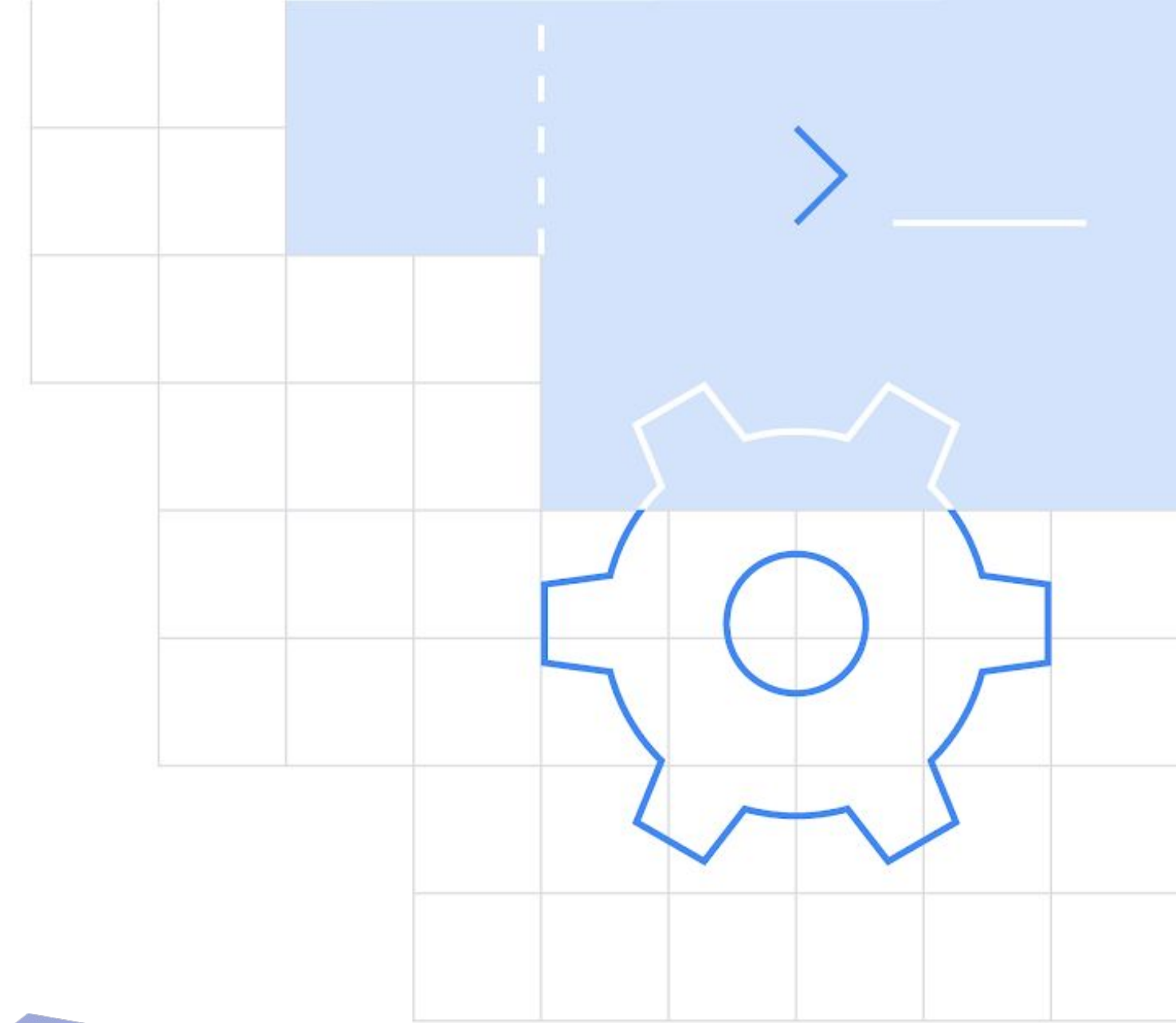
- What if you have a degree in Finance or Biology or Law???, surprisingly your previous domain knowledge is going to give you the boost you need. Data by itself is nothing its just a collection of records you need to see the opportunities in the data.
- You can use your biology knowledge to make better cancer detection program, you can use your finance knowledge to create programs that predict stocks or maybe you can use your knowledge ledge of the law to create thief classification system.
- The opportunities are endless, **the only restriction is yourself.**



Tools

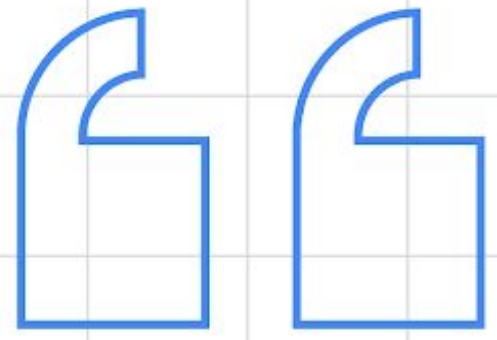


ANACONDA®



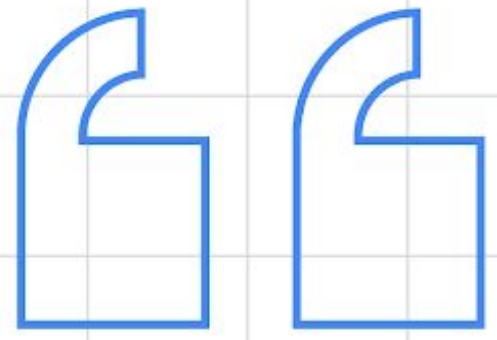
NumPy





Are you all ready Now to kick-start your
journey as **Data Scientists?**
Let's get started!





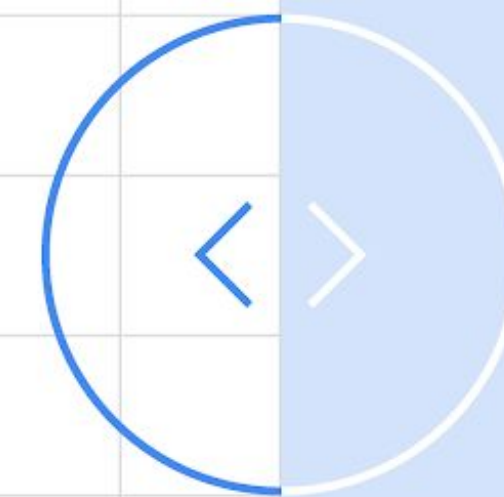
Before jumping into Installation, Let's get a General Overview of Python

- Python is a high-level programming language
- Open source and community driven
- Dynamic typed
- Source can be compiled or run just-in-time
- Similar to perl, tcl, ruby.

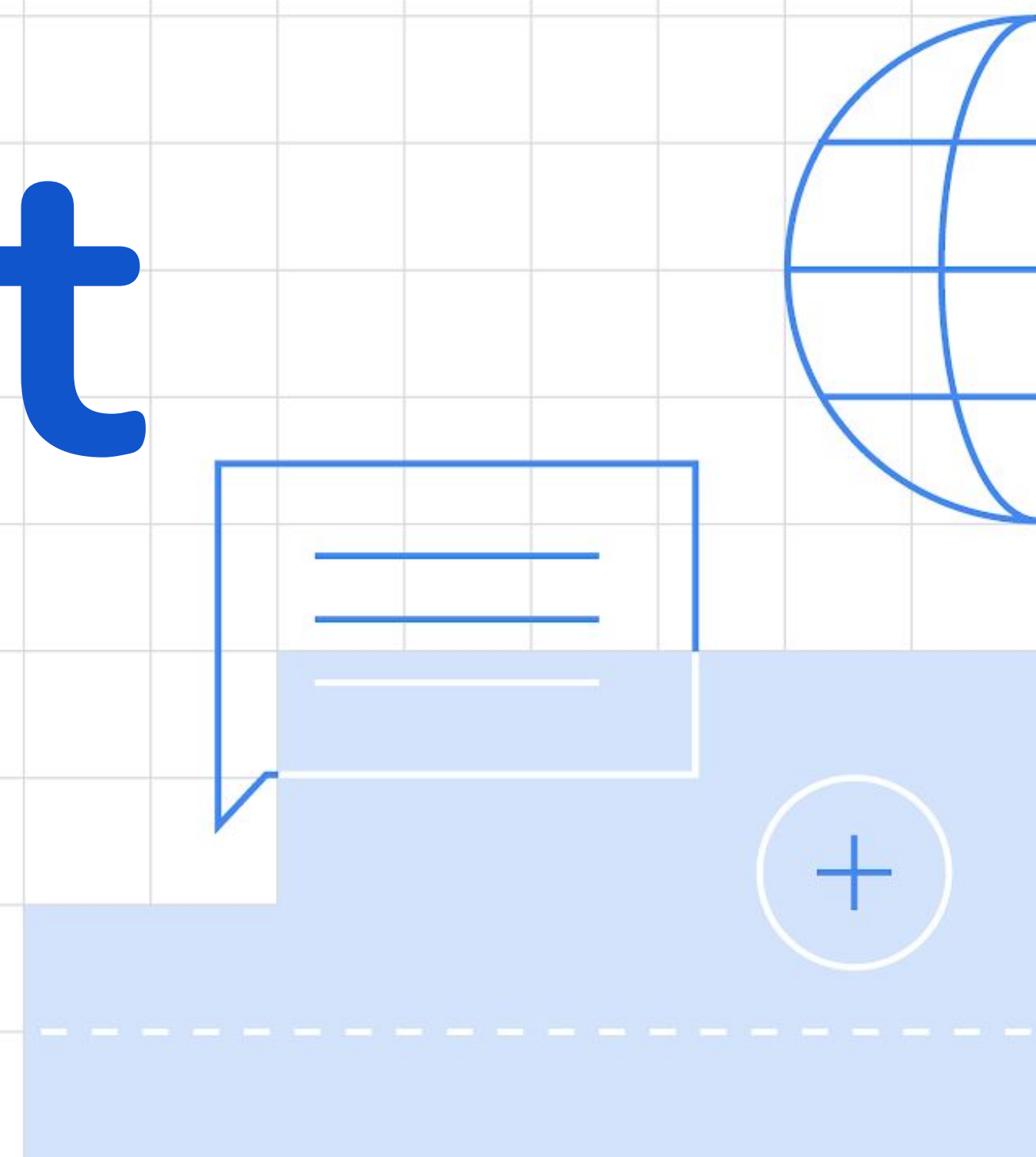


Thank you so much!!!

**Hope you all are pumped
up and excited for
upcoming DSC Sessions!**



Setting up Environment



Q/A Session

