

Data science with Python

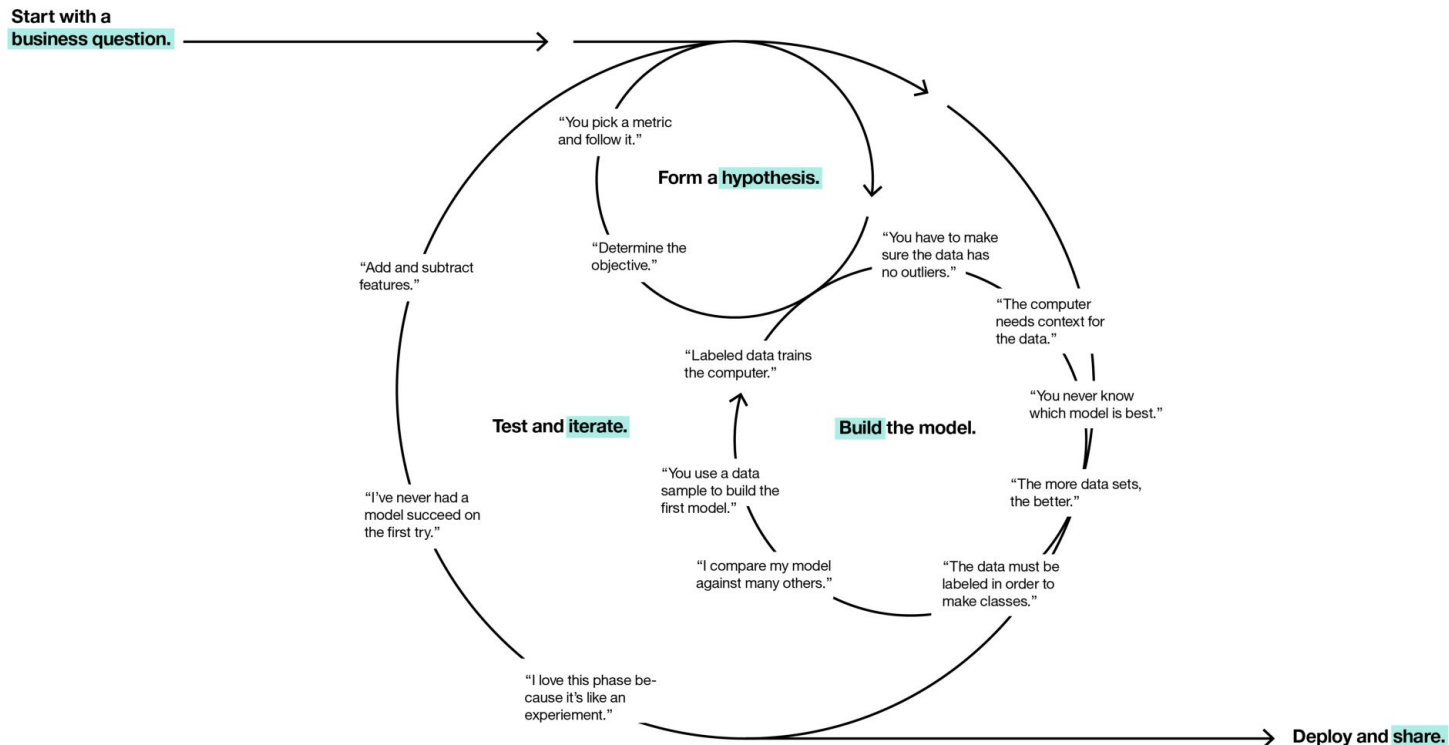
Husein Zolkepli

Who is Husein?

- CTO Mesolitica Sdn Bhd
- Hadoop, Spark, or any Infra are my friends.
- Experienced as a machine learning engineer, data scientist, data engineer, devOps and Executive Robotics in AI.
- Maintainer [Malaya](#), natural language toolkit for Bahasa Malaysia.
- I really love people asking questions, so just ask anytime!

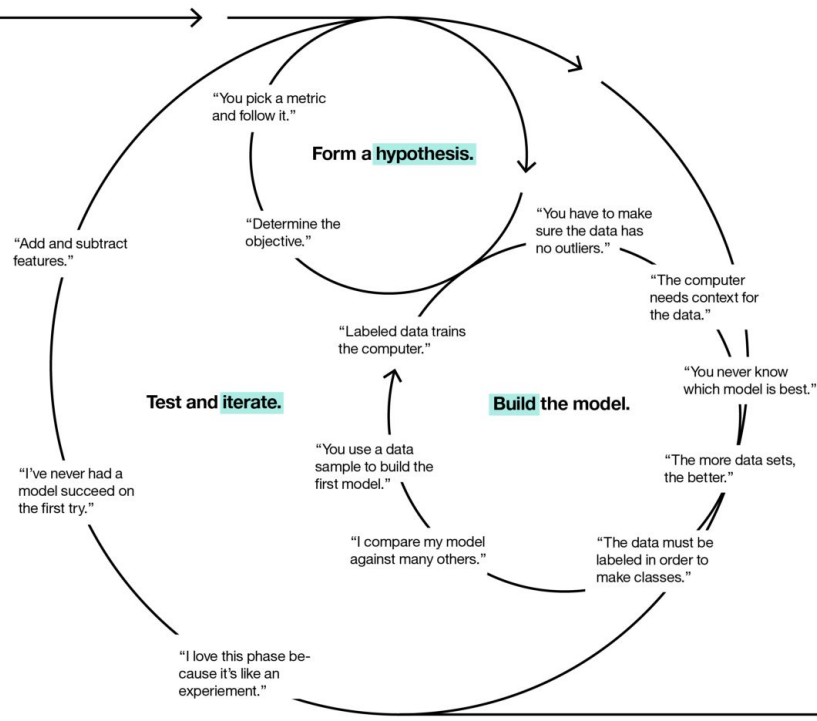


It is all about,



It is all about,

Start with a
business question.



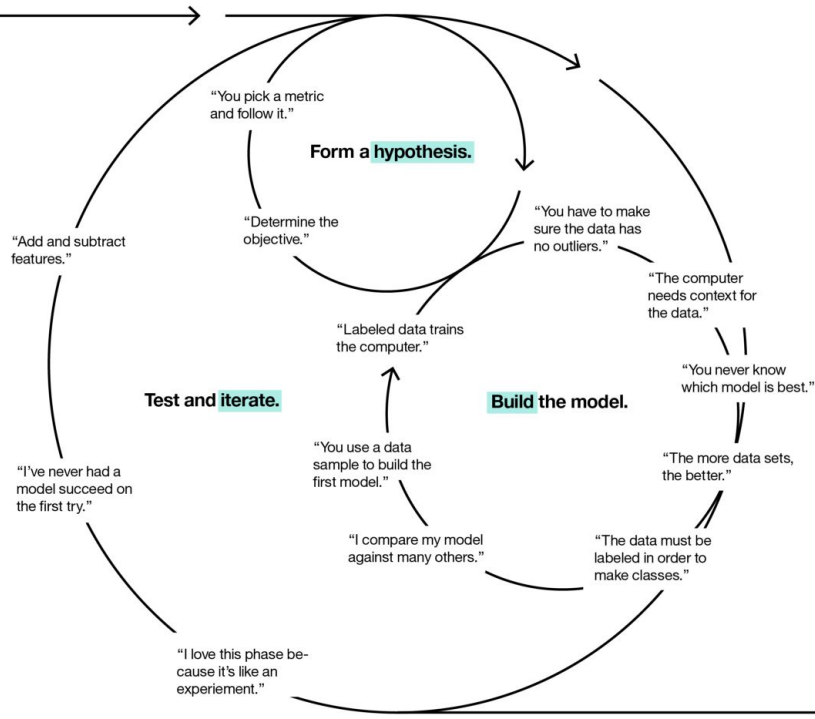
Talking with yourself or
your teammates,
Arguing some
nonsense self-believes.

Deploy and share.

It is all about,

Your other stakeholders totally no clues, not understand what this department is doing!

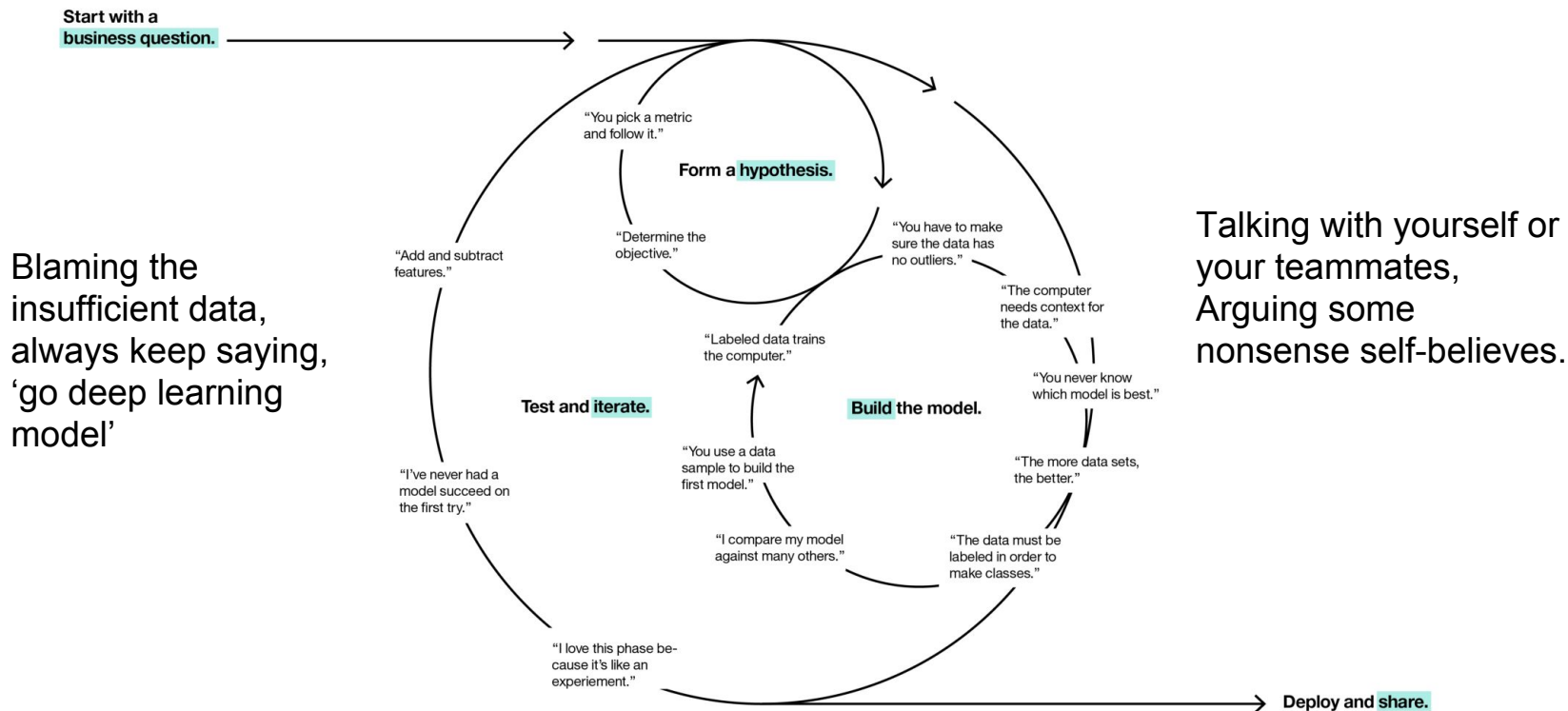
Start with a
business question.



Talking with yourself or
your teammates,
Arguing some
nonsense self-believes.

It is all about,

Your other stakeholders totally no clues, not understand what this department is doing!



Any departments got their human nature



Let's focus on Data science back ya

80% of my problem during working hours

Handling human nature.

80% of my problem during working hours

Handling human nature.

Onfocus, confused with what exactly is “data science”.

80% of my problem during working hours

Handling human nature.

Onfocus, confused with what exactly is “data science”.

What actually our bosses want yah?

80% of my problem during working hours

Handling human nature.

Onfocus, confused with what exactly is “data science”. (usually came from not really geek data scientist, not really techie, prefer as an abstract guy, usually graduated in economics or business)

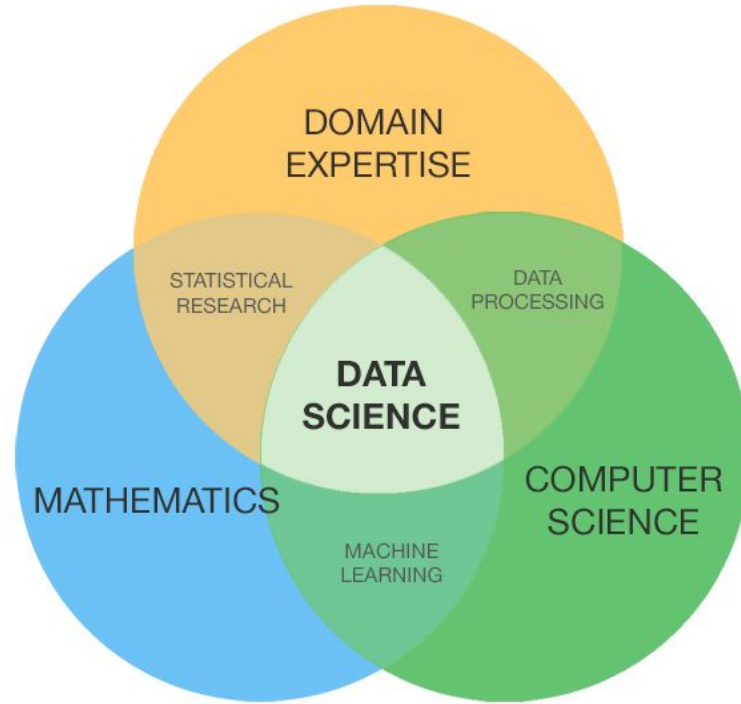
What actually our bosses want yah? (usually came from techie guys)

Whoops,

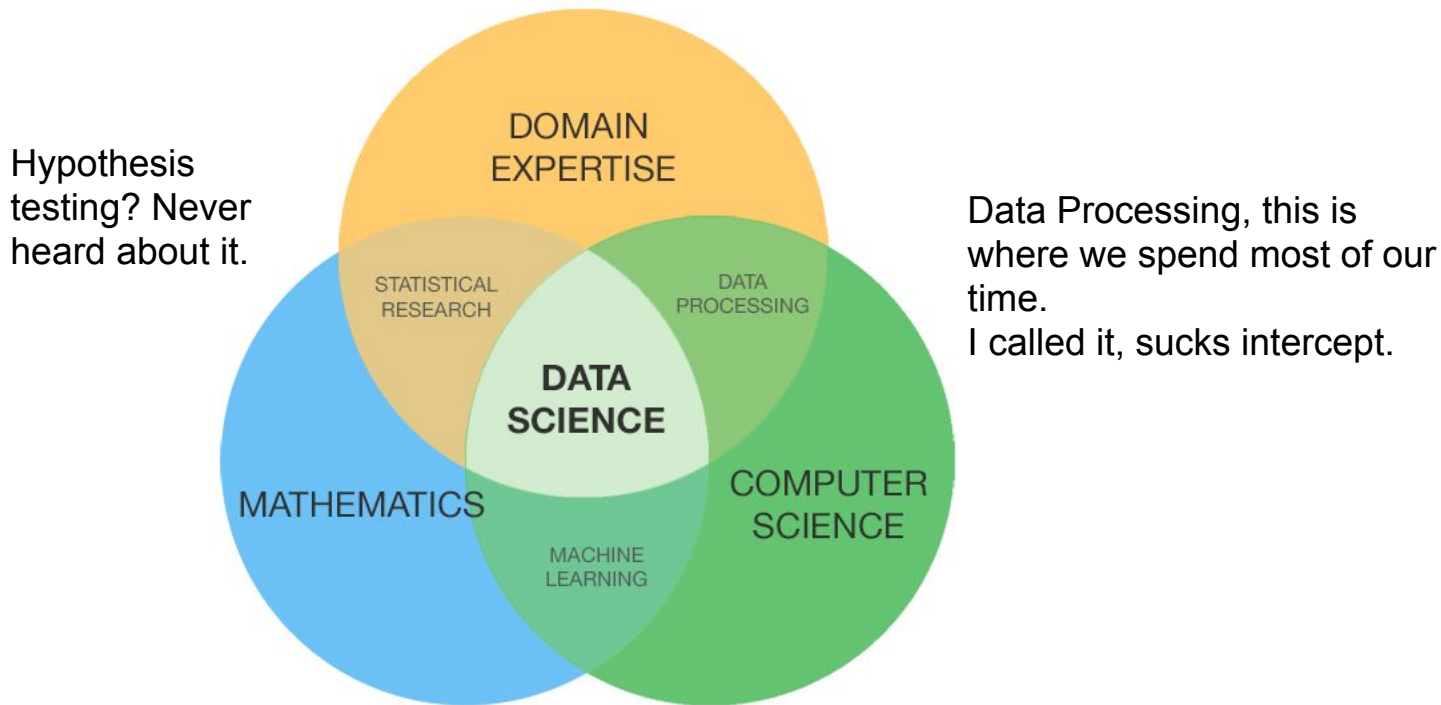


Let's focus on Data science back ya

What is Data Science?



What is Data Science?



You don't need to

To know so much about technology.

You don't need to

To know so much about technology.

You are fundamentally to solve
problems, a bridge between data
patterns and business questions?
Answers are inside data patterns.

You don't need to

To know so much about technology.

You are fundamentally to solve problems, a bridge between data patterns and business questions?
Answers are inside data patterns.

Not a single needle, a many needles in a haystack. Just keep searching!



You don't need to

To know so much about 'hacking skills'.

You don't need to

To know so much about 'hacking skills'.

People saying, oh, you need to know Hadoop, Spark, Flink and etc.

People saying, oh, you need to know a lot of database flavours.

But, a stable department only use really few technology stack.

APACHE
HBASE

 **Cassandra**



CouchDB
relax



 **riak**



mongoDB

HYPERTABLE INC



Neo4j



redis

What you need is,

What you need is,

Python.

A dynamic programming language for Data Science.

What you need is,

Python.

A dynamic programming language for Data Science.

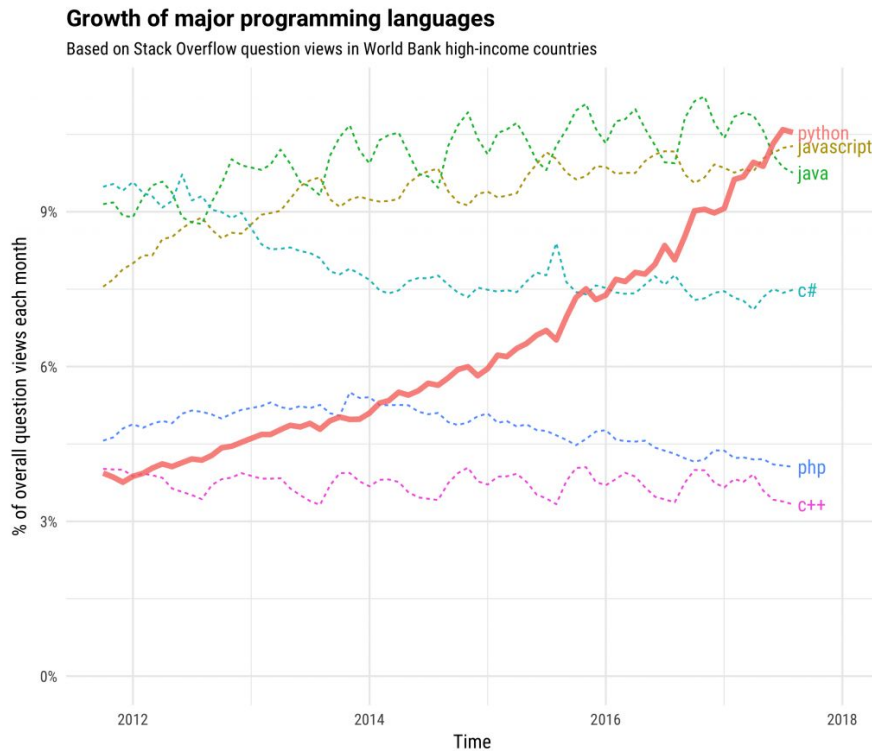


Why Python?

1. Insane libraries

You can literally do everything with Python nowadays, data science, web development, app development, deep learning, AI and so much more!

Now everyone can make their own version of terminator!



Why Python?

2. Integration support

Because we know Python is a high-level language, so Python can process all C, C++ and Java can do. Python can understand protocols, web development, markup language like XML, HTML and etc and cross-platform able to run any modern operating systems.

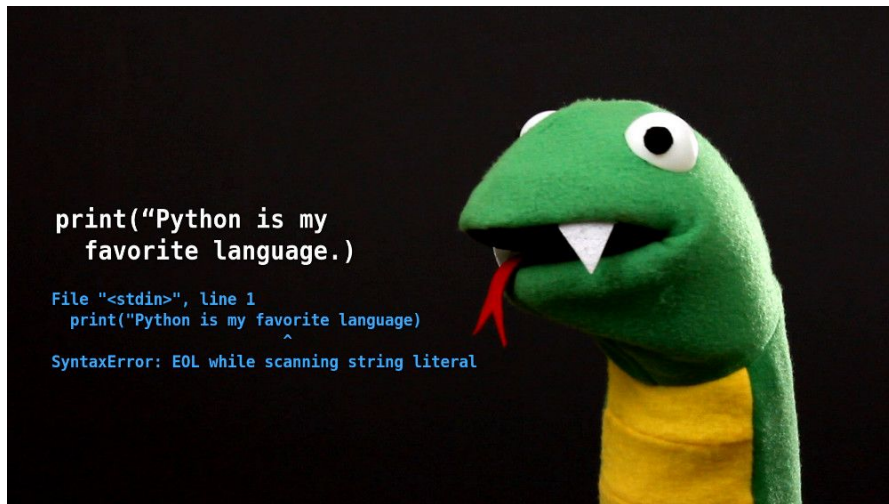


Why Python?

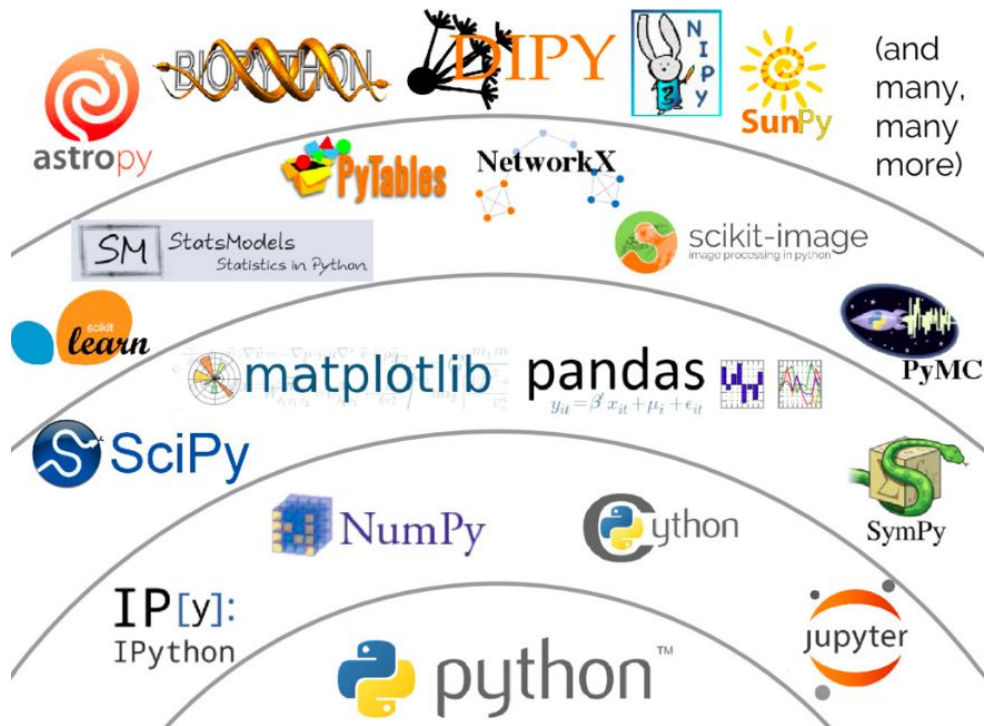
3. Cleaner Code

Look, there are tons of dynamic programming languages like Python, but why community choose Python? Why such a big company like Google choose Python?

Beautiful syntax. Elegant. Slick.



Python stack



But, again, the most important is,

Mathematics understanding.

But, again, the most important is,

Mathematics understanding.

Python just another tool, a good tool.

But, again, the most important is,

Mathematics understanding.

Python just another tool, a good tool.

You want to build a chair. Without a good tool, you don't get the chair.

But with a good knowledge, you can make the tool, also with the chair.

What else Python can do?

