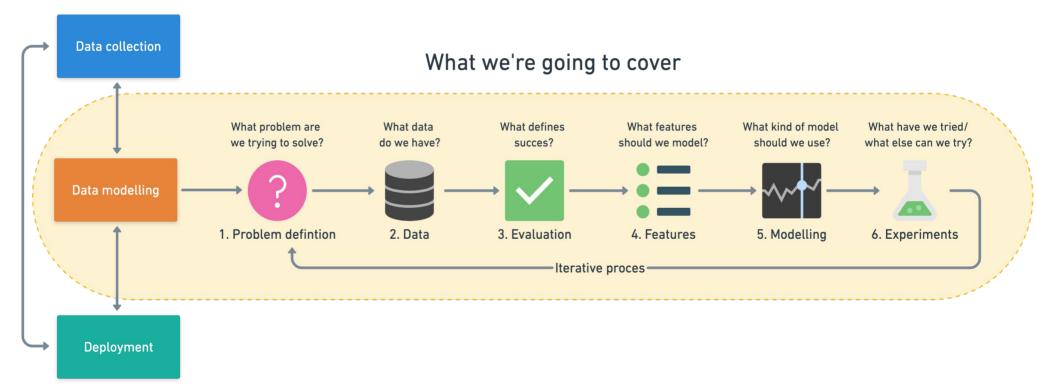


What is Pandas

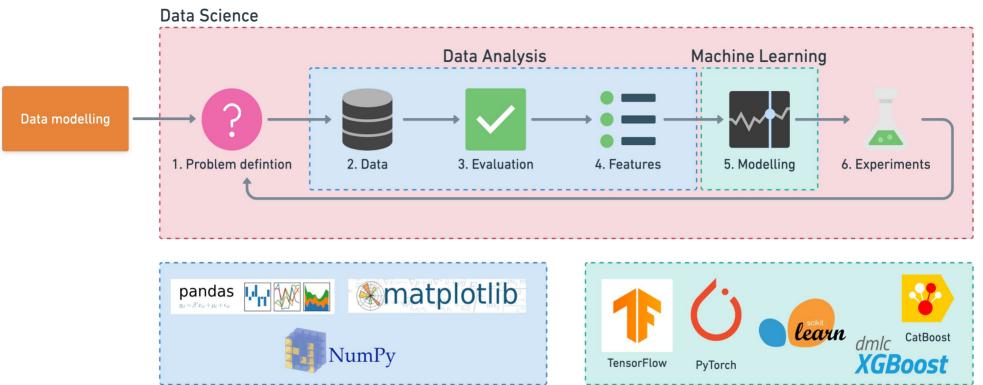
- Pandas is a software library written for the Python programming language for data manipulation and analysis.
- Pandas is used to explore, analysed and manipulate data ready for machine learning.

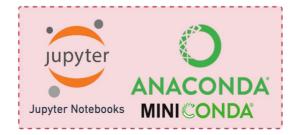


Steps in a full machine learning project



Tools you can use





Why Pandas?

- It's simple to use
- It's written in python programming language
- Helps you set your data ready for machine learning algorithm
- Pandas gives your set of tools to do Data Analysis
- You can use it on various type of data file such as

Excel

Csv... etc





What we are going to cover

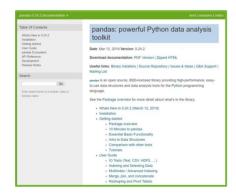
- Most useful functions
- Pandas Datatypes
- Importing and Exporting data
- Describing data
- Viewing and selection data
- Manipulating data





Where can I get help

- Follow along with the code
- Try if for yourself
- Stack overflow
- Pandas documentation









Let's code!





Anatomy of a DataFrame

,		(axis = 1)		Data \			
		Make	Colour	Odometer/	Doors	Price	Column name
Index number (starts at 0 by default)	0	Toyota	White	150043	4	\$4,000	
	1	Honda	Red	87899	4	\$5,000	
Row (axis = 0)	2	Toyota	Blue	32549	3	\$7,000	
	3	BMW	Black	11179	5	\$22,000	
	4	Nissan	White	213095	4	\$3,500	