

Build your first ML Model

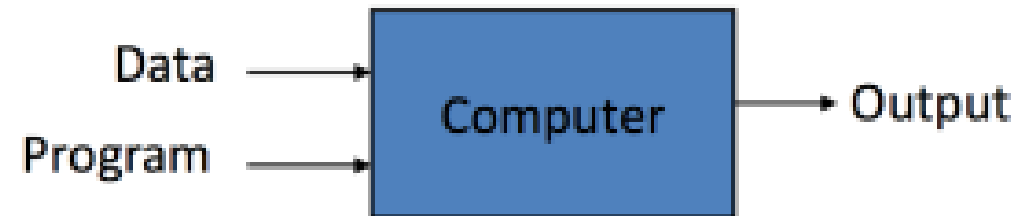
Robin Rojowiec & Maike Havemann

Agenda

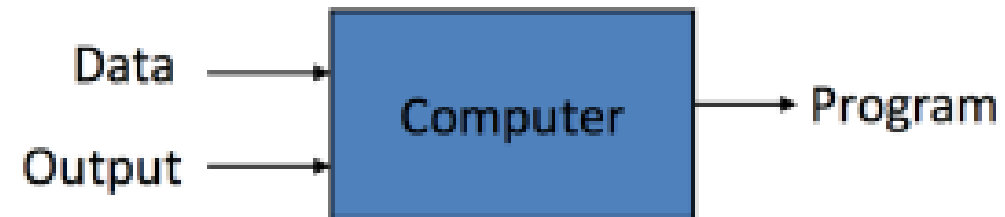
- What is ML ?
- Algorithm and Dataset
- Setup your Environment
- Getting Started

What is ML ?

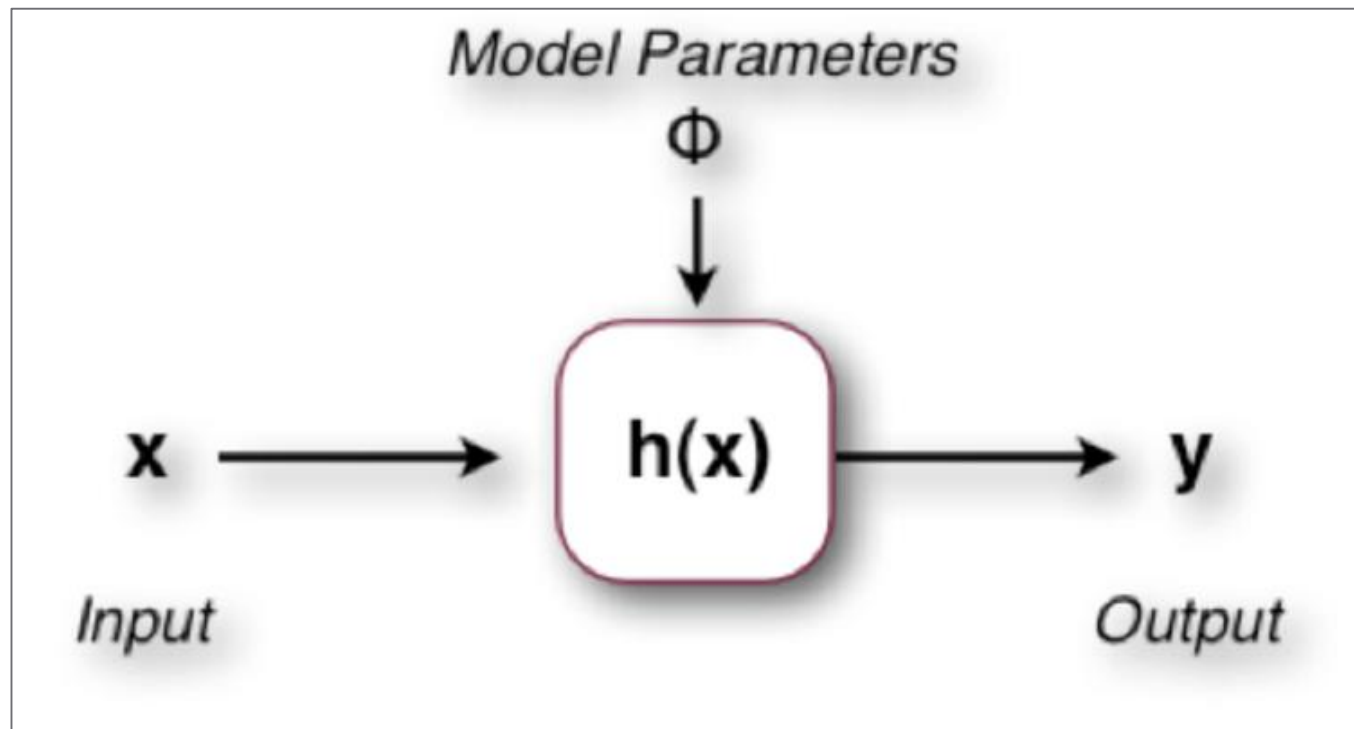
Traditional Programming



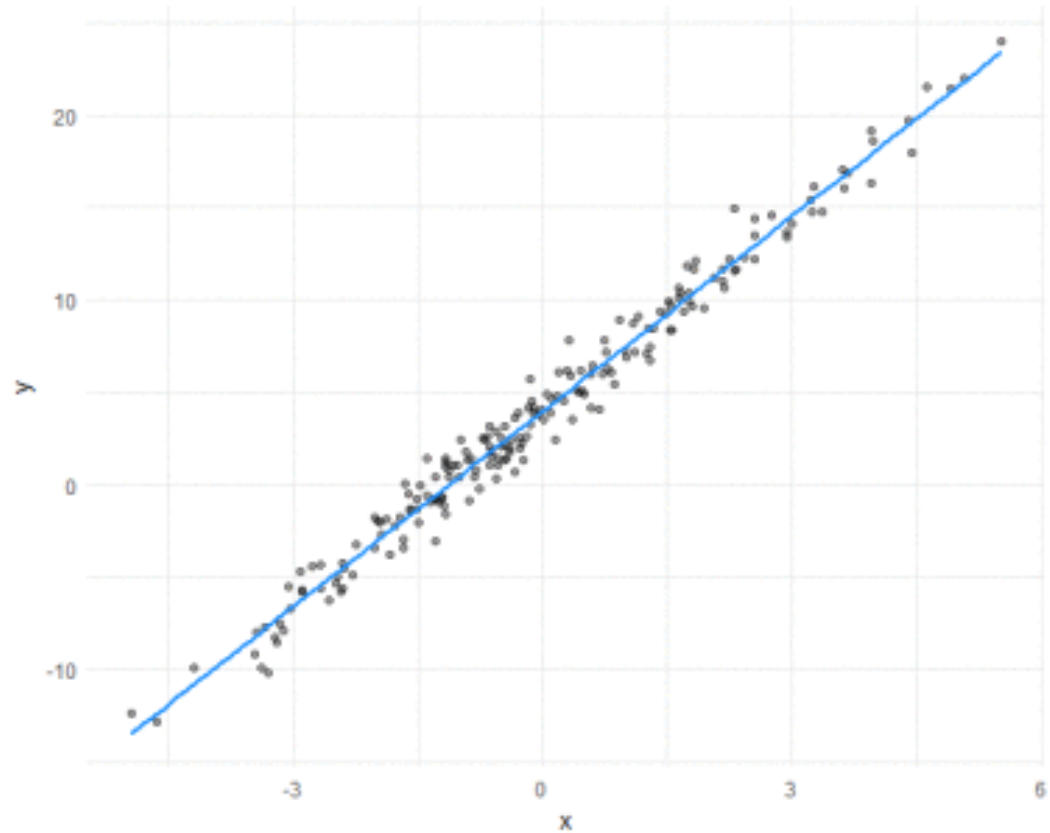
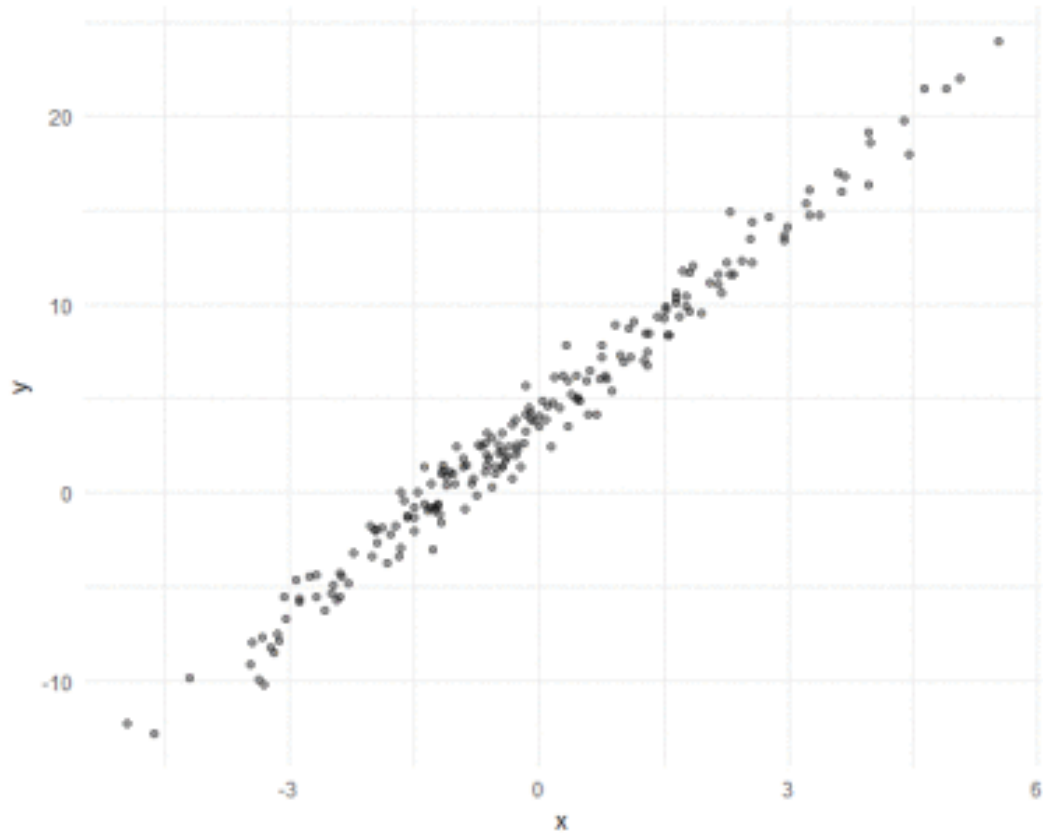
Machine Learning



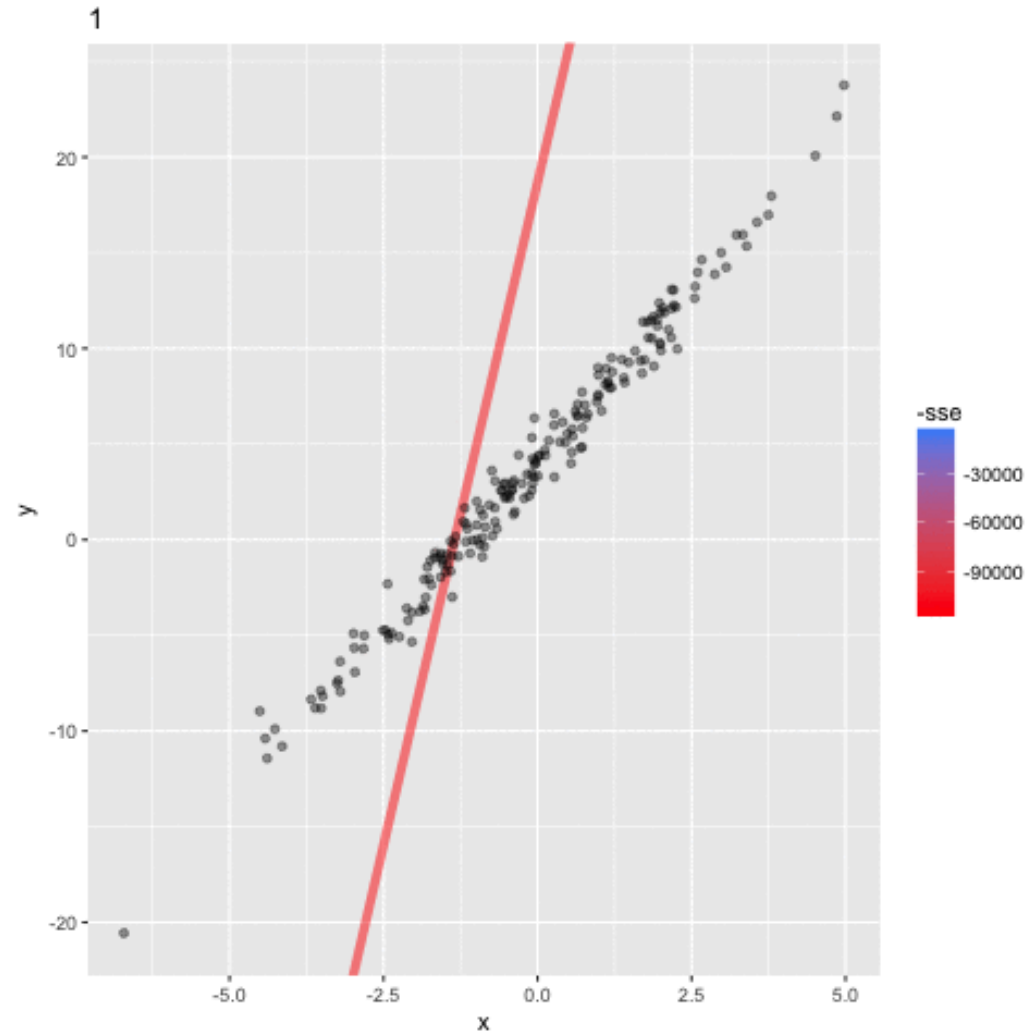
What is ML ?



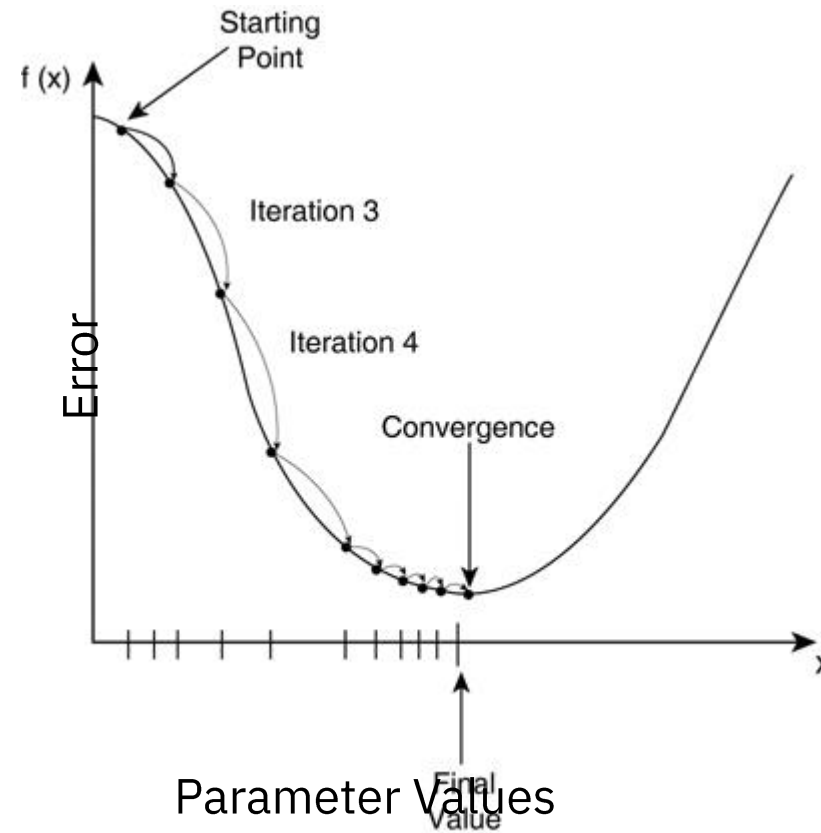
What is ML ?



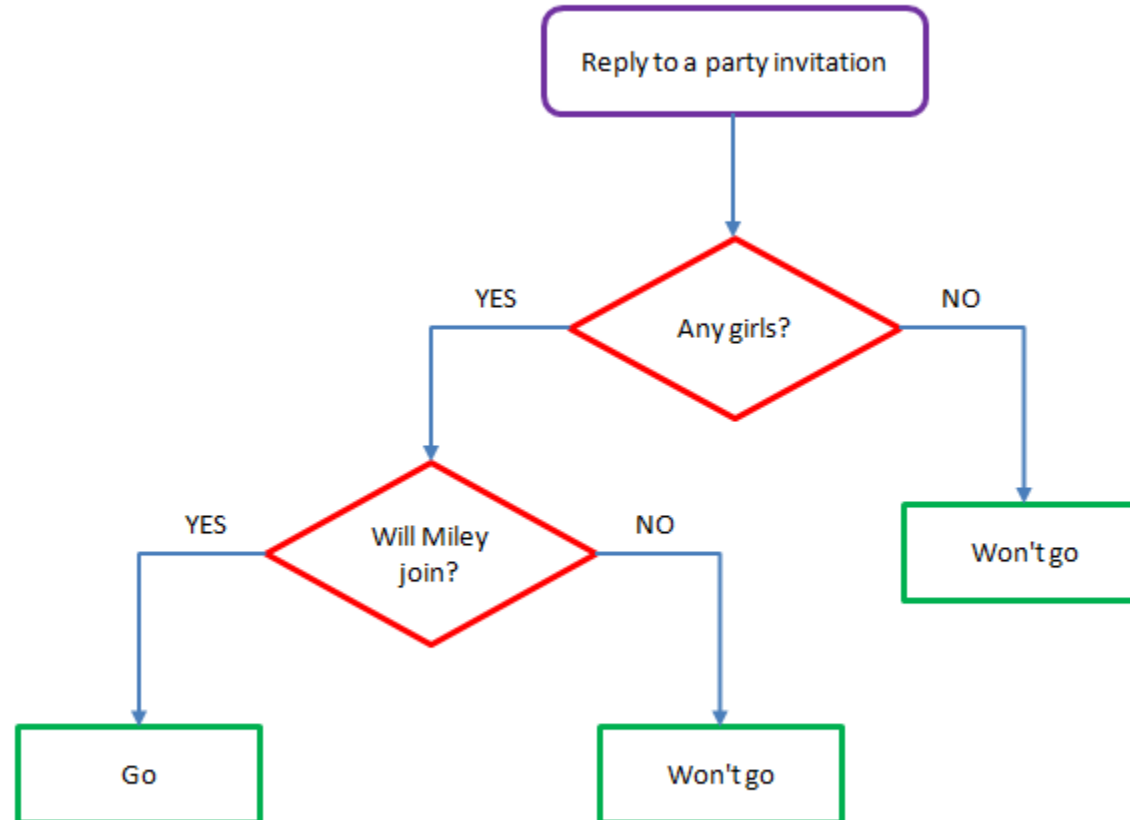
What is ML ?



How do we get there ?





Algorithm: Decision Tree



Algorithm: Decision Tree



Dataset: Houses in Iowa

Suburb	Address	# Rooms	Type	Price
Reservoir 3%	13378 unique values		h 70% u 22% Other (2) 8%	
Richmond 2%				
Other (313) 95%				
Abbotsford				
Abbotsford	85 Turner St	2	h	1480000.0
Abbotsford	25 Bloomburg St	2	h	1035000.0
Abbotsford	5 Charles St	3	h	1465000.0
Abbotsford	40 Federation La	3	h	850000.0
Abbotsford	55a Park St	4	h	1600000.0

Setup Environment

What we will use today:



Google Collab with integrated Jupyter Notebooks

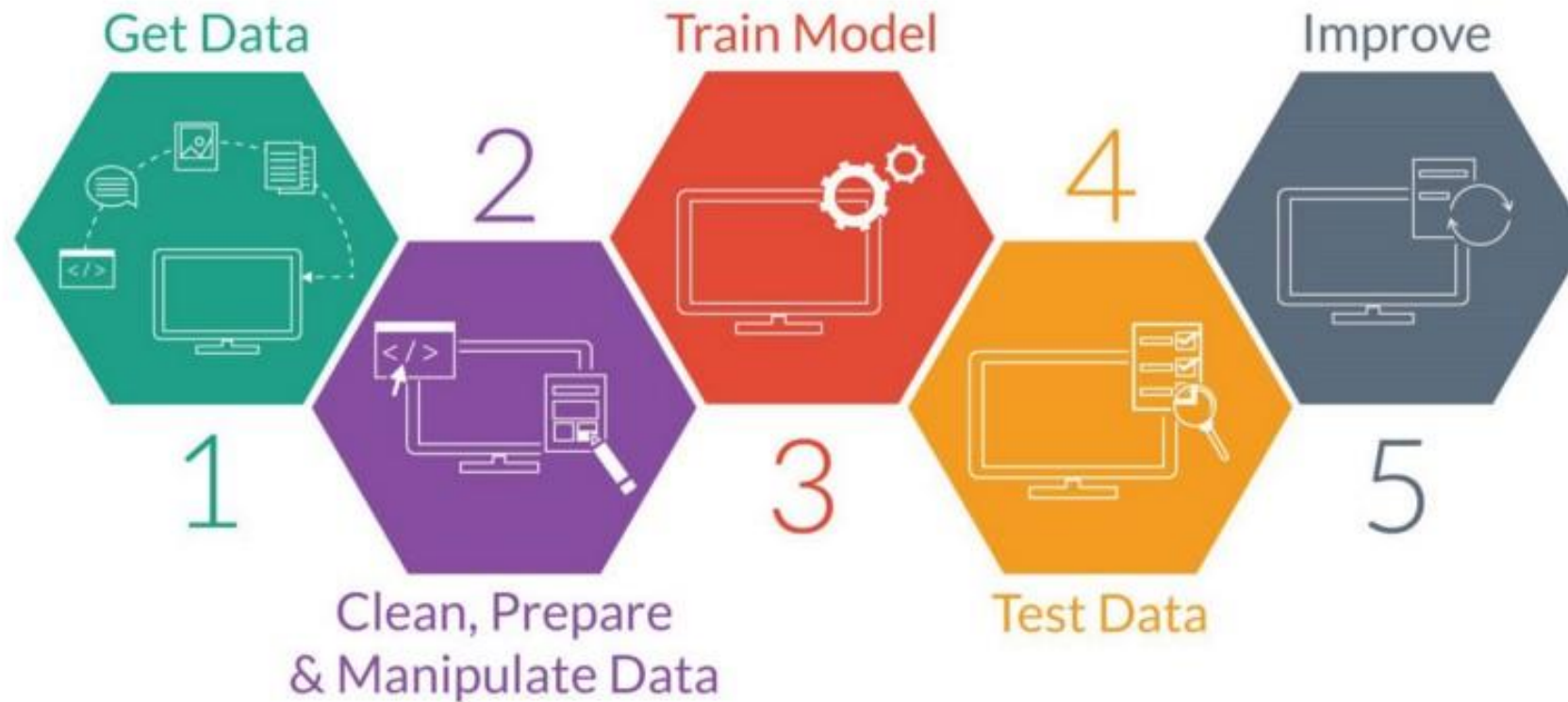
Setup Environment

1. Start the laptop and login
2. Open the public repository: <https://github.com/RobinRojowiec/your-first-model-ml-intro>
3. If you don't have a google account, create one here:
<https://accounts.google.com/signup>
4. Login to Google Collab: <https://colab.research.google.com/>
5. Import the Notebook from Github:
 1. Goto File->Open Notebook
 2. Select Github
 3. Paste the following URL:
 4. Press Upload

Which frameworks and language we will use

- Python 3.5+
- Pandas
- SciKit-Learn

Getting started



Let's go!

Instructions

- Follow the instructions in the Notebooks. This presentation is available on the Github Repository if you need it.
- We will do checkpoints every 15 Minutes to check where you are.
- If you need help, raise your arm.



Any Questions ?