

Describe your data

regression dataset - Google 搜尋

google.com.tw/search?q=regression+dataset&sxsrf=APq-WBubGP2Nkdcw2vMAqk9TFIs4BrkpFg%3A1646708054877&source...

regression dataset

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約有 2,260,000,000 項結果 (搜尋時間 : 0.52 秒)

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10 Open Datasets For Linear Regression - TELUS International

2021年1月1日 — Linear regression datasets for machine learning · 1. Cancer linear regression · 2. CDC data: nutrition, physical activity, obesity · 3. Fish market ...

<https://archive.ics.uci.edu> > datasets ▾ 翻譯這個網頁

Regression - UCI Machine Learning Repository: Data Sets

Data Types	Default Task	Attribute Types	# Instances	# Attributes	Year
Sequential, Text	Regression, Clustering	Real	434874	4	2013
Sequential	Classification, Regression	Real	158716	4	2021
Multivariate	Classification, Regression	Integer, Real	153000	5	2021

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Datasets for regression analysis | Kaggle

This is a collection of some thematically related datasets that are suitable for different types of regression analysis. Each set of datasets requires a ...

<https://data.world> > datasets > regression ▾ 翻譯這個網頁

Search regression dataset

Describe your data

UCI Machine Learning Repository

archive.ics.uci.edu/ml/datasets.php?format=&task=reg&att=&area=&numAtt=&numIns=&type=&sort=...

應用程式 元智大學個人portal GitHub Microsoft Azure N... 免費線上影片轉Gif... YouTube Google 學術搜尋 其他書籤 閱讀清單

10 to 100 (84)
Greater than 100 (20)

Instances

Less than 100 (7)
100 to 1000 (48)
Greater than 1000 (94)

Format Type

Matrix (121)
Non-Matrix (30)

UCI	Alcohol QCM Sensor Dataset	Multivariate	Classification, Regression, Clustering	Real	125	8	2019
UCI	Algerian Forest Fires Dataset	Multivariate	Classification, Regression	Real	244	12	2019
UCI	Amazon Access Samples	Time-Series, Domain-Theory	Regression, Clustering, Causal-Discovery		30000	20000	2011
UCI	Apartment for rent classified	Multivariate	Classification, Regression, Clustering		10000	22	2019
UCI	Appliances energy prediction	Multivariate, Time-Series	Regression	Real	19735	29	2017
	Auto MPG	Multivariate	Regression	Categorical, Real	398	8	1993
			Regression	Categorical, Integer, Real	205	26	1987
UCI	Average Localization Error (ALE) in sensor node localization process in WSNs	Multivariate	Regression	Real	107	6	2021
UCI	Bar Crawl: Detecting Heavy Drinking	Multivariate, Time-Series	Classification, Regression	Real	14057567	3	2020
UCI	Bar Crawl: Detecting Heavy Drinking	Multivariate, Time-Series	Classification, Regression	Real	14057567	3	2020

Appliances energy prediction
data set

Describe your data

UCI Machine Learning Repository

archive.ics.uci.edu/ml/datasets/Appliances+energy+prediction

Machine Learning Repository
Center for Machine Learning and Intelligent Systems

[View ALL Data Sets](#)

Check out the [beta version](#) of the new UCI Machine Learning Repository we are currently testing! [Contact us](#) if you have any issues, questions, or concerns. [Click here to try out the new site.](#)

Appliances energy prediction Data Set

Download: [Data Folder](#), [Data Set Description](#)

Abstract: Experimental data used to create regression models of appliances energy use in a low energy building.

Data Set Characteristics:	Multivariate, Time-Series	Number of Instances:	19735	Area:	Computer
Attribute Characteristics:	Real	Number of Attributes:	29	Date Donated	2017-02-15
Associated Tasks:	Regression	Missing Values?	N/A	Number of Web Hits:	180586

Source:

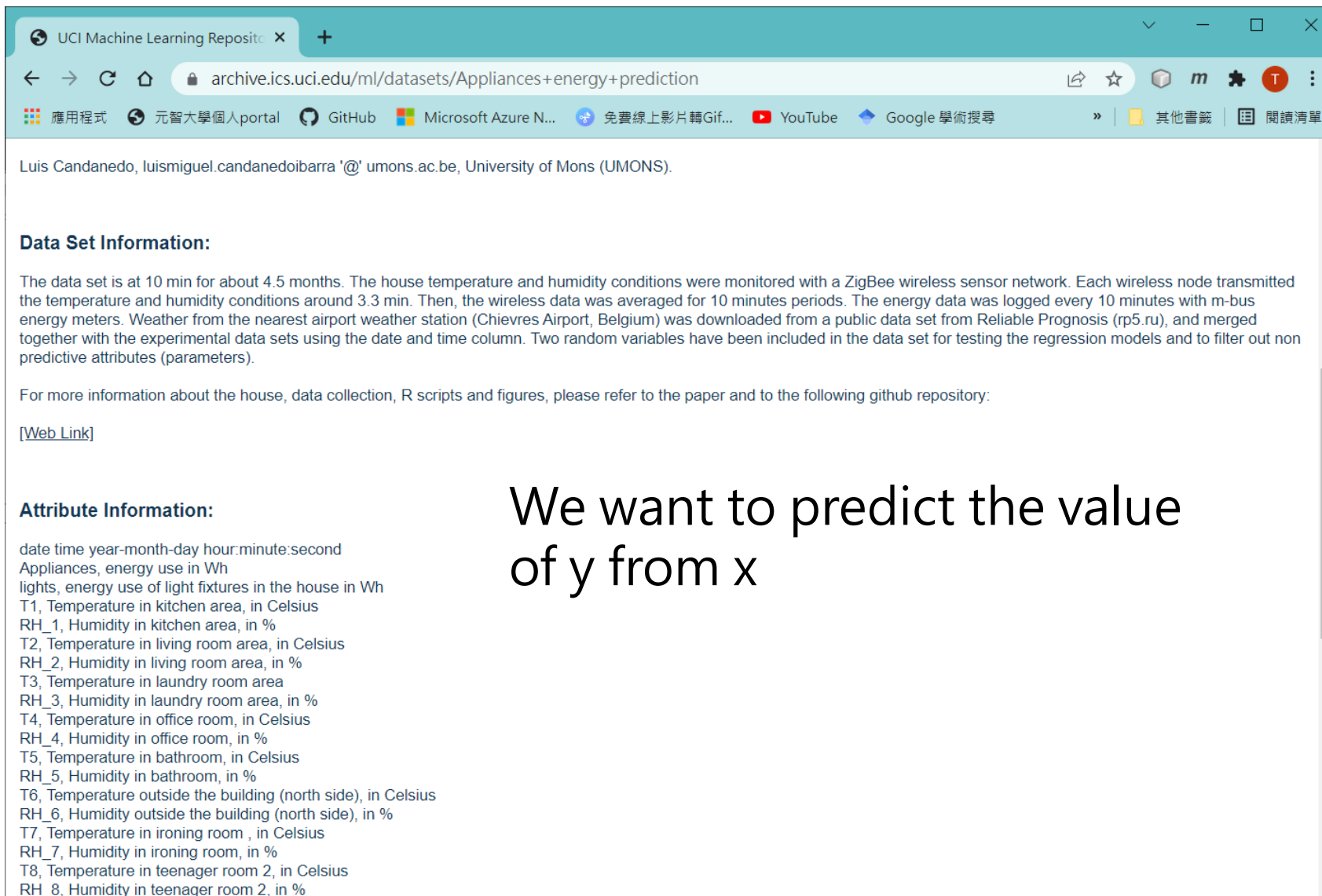
Luis Candanedo, luismiguel.candanedoibarra '@' umons.ac.be, University of Mons (UMONS).

Data Set Information:

The data set is at 10 min for about 4.5 months. The house temperature and humidity conditions were monitored with a ZigBee wireless sensor network. Each wireless node transmitted the temperature and humidity conditions around 3.3 min. Then, the wireless data was averaged for 10 minutes periods. The energy data was logged every 10 minutes with m-bus energy meters. Weather from the nearest airport weather station (Chievres Airport, Belgium) was downloaded from a public data set from Reliable Prognosis (rp5.ru), and merged together with the experimental data sets using the date and time column. Two random variables have been included in the data set for testing the regression models and to filter out non predictive attributes (parameters).

For more information about the house, data collection, R scripts and figures, please refer to the paper and to the following github repository:

Describe the learning task



UCI Machine Learning Repository

archive.ics.uci.edu/ml/datasets/Appliances+energy+prediction

Luis Candanedo, luismiguel.candanedoibarra '@' umons.ac.be, University of Mons (UMONS).

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[\[Web Link\]](#)

Attribute Information:

date time year-month-day hour:minute:second
 Appliances, energy use in Wh
 lights, energy use of light fixtures in the house in Wh
 T1, Temperature in kitchen area, in Celsius
 RH_1, Humidity in kitchen area, in %
 T2, Temperature in living room area, in Celsius
 RH_2, Humidity in living room area, in %
 T3, Temperature in laundry room area
 RH_3, Humidity in laundry room area, in %
 T4, Temperature in office room, in Celsius
 RH_4, Humidity in office room, in %
 T5, Temperature in bathroom, in Celsius
 RH_5, Humidity in bathroom, in %
 T6, Temperature outside the building (north side), in Celsius
 RH_6, Humidity outside the building (north side), in %
 T7, Temperature in ironing room, in Celsius
 RH_7, Humidity in ironing room, in %
 T8, Temperature in teenager room 2, in Celsius
 RH_8, Humidity in teenager room 2, in %

We want to predict the value
of y from x

Feature scaling

Feature scaling - Process your data in Excel

energydata_complete.csv - Excel

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A1 : X ✓ f date

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	date	Appliance	lights	T1	RH_1	T2	RH_2	T3	RH_3	T4	RH_4	T5	RH_5	T6	RH_6	T7	RH_7	T8
2	2016/1/11 17:00	60	30	19.89	47.59667	19.2	44.79	19.79	44.73	19	45.56667	17.16667	55.2	7.026667	84.25667	17.2	41.62667	
3	2016/1/11 17:10	60	30	19.89	46.69333	19.2	44.7225	19.79	44.79	19	45.9925	17.16667	55.2	6.833333	84.06333	17.2	41.56	
4	2016/1/11 17:20	50	30	19.89	46.3	19.2	44.62667	19.79	44.93333	18.92667	45.89	17.16667	55.09	6.56	83.15667	17.2	41.43333	
5	2016/1/11 17:30	50	40	19.89	46.06667	19.2	44.59	19.79	45	18.89	45.72333	17.16667	55.09	6.433333	83.42333	17.13333	41.29	
6	2016/1/11 17:40	60	40	19.89	46.33333	19.2	44.53	19.79	45	18.89	45.53	17.2	55.09	6.366667	84.89333	17.2	41.23	
7	2016/1/11 17:50	50	40	19.89	46.02667	19.2	44.5	19.79	44.93333	18.89	45.73	17.13333	55.03	6.3	85.76667	17.13333	41.26	
8	2016/1/11 18:00	60	50	19.89	45.76667	19.2	44.5	19.79	44.9	18.89	45.79	17.1	54.96667	6.263333	86.09	17.13333	41.2	
9	2016/1/11 18:10	60	50	19.85667	45.56	19.2	44.5	19.73	44.9	18.89	45.86333	17.1	54.9	6.19	86.42333	17.1	41.2	
10	2016/1/11 18:20	60	40	19.79	45.5975	19.2	44.43333	19.73	44.79	18.89	45.79	17.16667	55	6.123333	87.22667	17.16667	41.4	
11	2016/1/11 18:30	70	40	19.85667	46.09	19.23	44.4	19.79	44.86333	18.89	46.09667	17.1	55	6.19	87.62667	17.2	41.5	
12	2016/1/11 18:40	230	70	19.92667	45.86333	19.35667	44.4	19.79	44.9	18.89	46.43	17.1	55	6.19	87.86667	17.2475	42.7175	
13	2016/1/11 18:50	580	60	20.06667	46.39667	19.42667	44.4	19.79	44.82667	19	46.43	17.1	55	6.123333	87.99333	17.53	44.26333	18.0
14	2016/1/11 19:00	430	50	20.13333	48	19.56667	44.4	19.89	44.9	19	46.36333	17.1	55.09	6.123333	88.59	17.82333	45.49333	18.0
15	2016/1/11 19:10	250	40	20.26	52.72667	19.73	45.1	19.89	45.49333	19	47.22333	17.1	55.16333	6.0675	88.215	17.96333	46.16	18.0
16	2016/1/11 19:20	100	10	20.42667	55.89333	19.85667	45.83333	20.03333	47.52667	19	48.69667	17.1	55.5	5.9	88.15667	17.96333	45.53333	
17	2016/1/11 19:30	100	10	20.56667	53.89333	20.03333	46.75667	20.1	48.46667	19	48.49	17.15	56.0425	5.8	88.36667	17.89	44.92667	
18	2016/1/11 19:40	90	10	20.73	52.66	20.16667	47.22333	20.2	48.53	18.92667	48.15667	17.16667	56.49	5.726667	88.16	17.76	44.26667	
19	2016/1/11 19:50	70	30	20.85667	53.66	20.2	47.05667	20.2	48.4475	18.89	47.96333	17.2	56.93333	5.526667	87.3	17.7	43.72667	18.3
20	2016/1/11 20:00	80	30	20.89	51.19333	20.2	46.33	20.2	48.19333	18.96333	48.63	17.2	57.06	5.333333	86.76	17.66667	43.16	18.5
21	2016/1/11 20:10	140	40	20.89	49.8	20.2	46.02667	20.16667	47.63333	19.03333	49.5	17.59333	70.72667	5.333333	87.46333	17.6	42.69333	18.6
22	2016/1/11 20:20	120	20	20.89	48.43333	20.2	45.7225	20.16667	47.3	19.175	49.9475	18.06667	79	5.466667	87.53	17.6	42.33333	
23	2016/1/11 20:30	190	40	20.96333	47.63333	20.26	45.53	20.2	47.02667	19.26	49.69667	17.66667	79.73	5.5	86.95667	17.53333	42.06667	18.8
24	2016/1/11 20:40	110	40	21.03333	47.06333	20.29	45.22333	20.26	46.82667	19.32333	49.16667	17.6	79.25667	5.56	86.56333	17.63333	43.63333	
25	2016/1/11 20:50	110	40	21.1	46.59667	20.35667	44.96333	20.29	46.63333	19.39	48.42667	17.56667	78.39333	5.623333	86.33	17.76	43.63333	18.9
26	2016/1/11 21:00	110	30	21.13333	46.06	20.42667	44.76	20.29	46.43333	19.39	48.19333	17.76	82.46	5.763333	86.06333	17.85667	43.46	
27	2016/1/11 21:10	110	20	21.2	45.8	20.5	44.76	20.30	46.22333	19.30	47.8	18.35667	82.50	5.656667	85.50	17.70	43.4	10.0

energydata_complete

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100%

Build a NN to learn generalizable prediction

Try different NNs

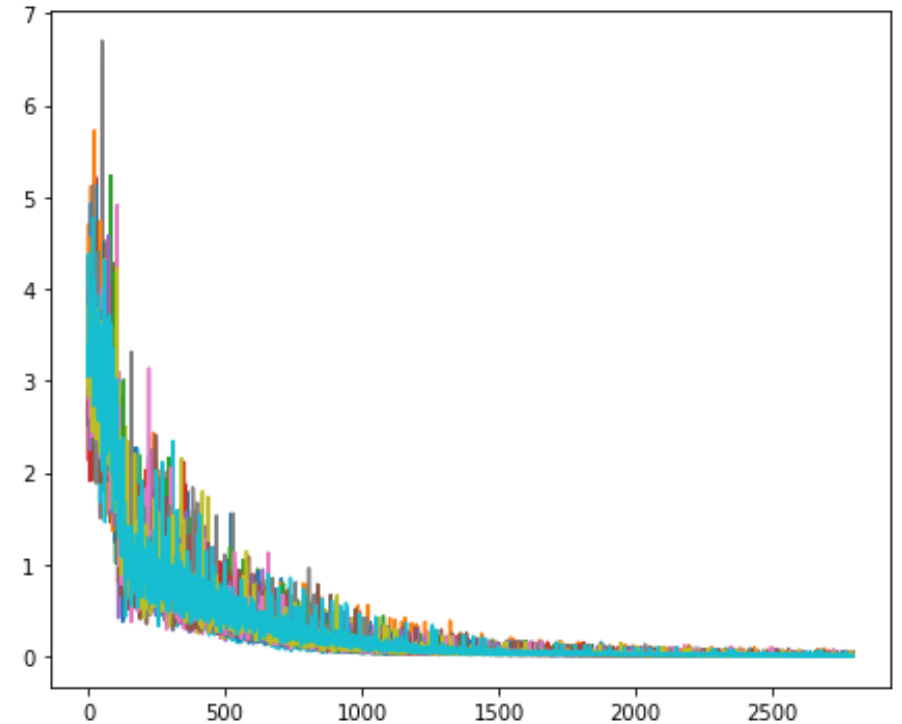
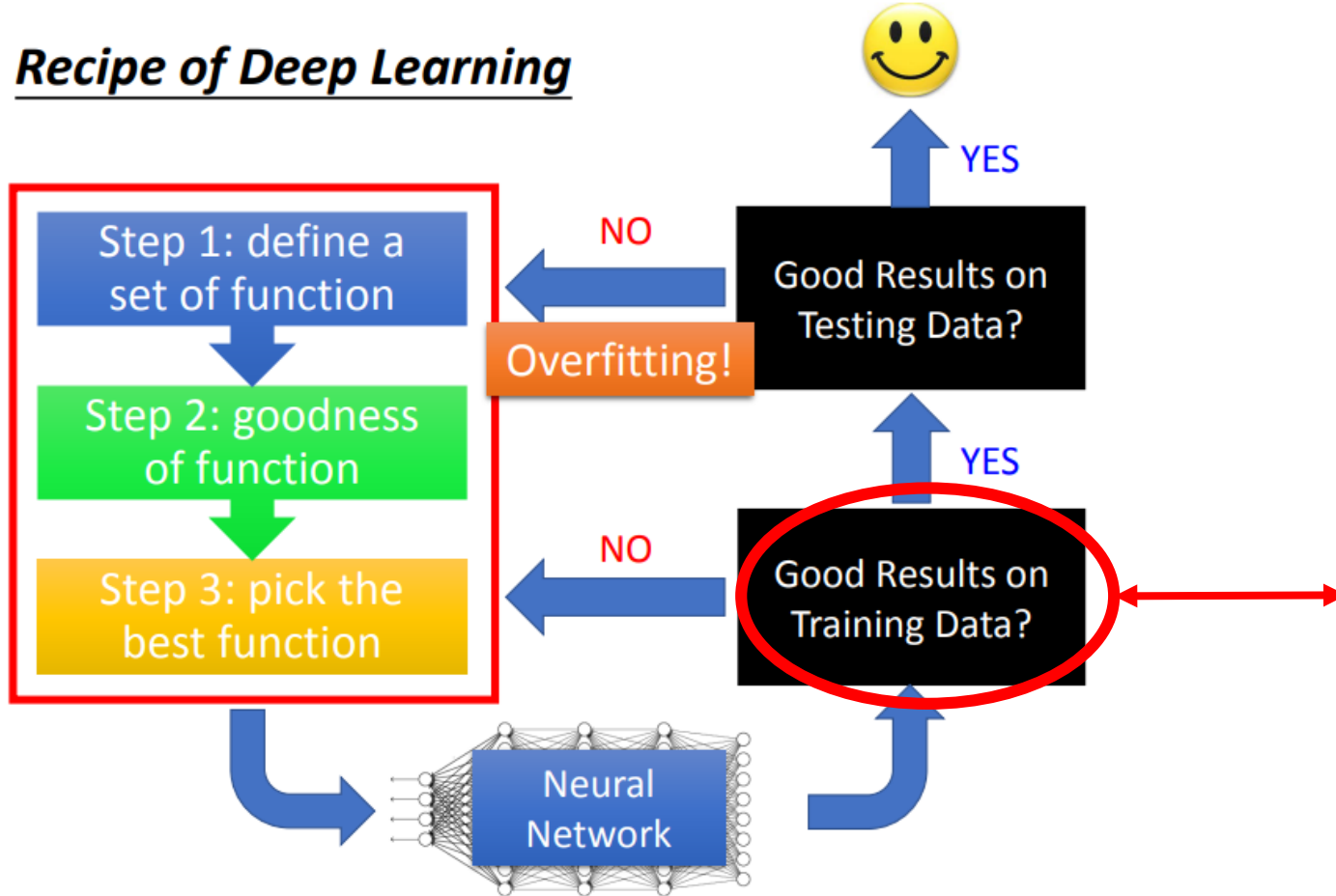
- *M*-56-56-1
- *M*-128-128-1
- *M*-256-256-1

2.3. Regression HW.ipynb

2.2. Overfitting.ipynb

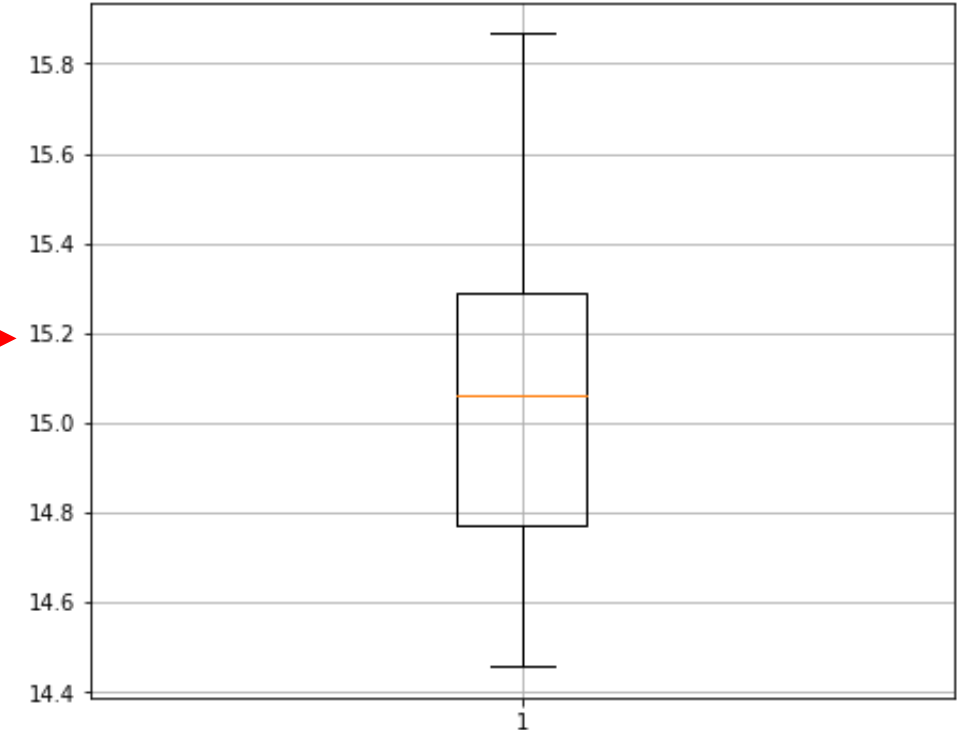
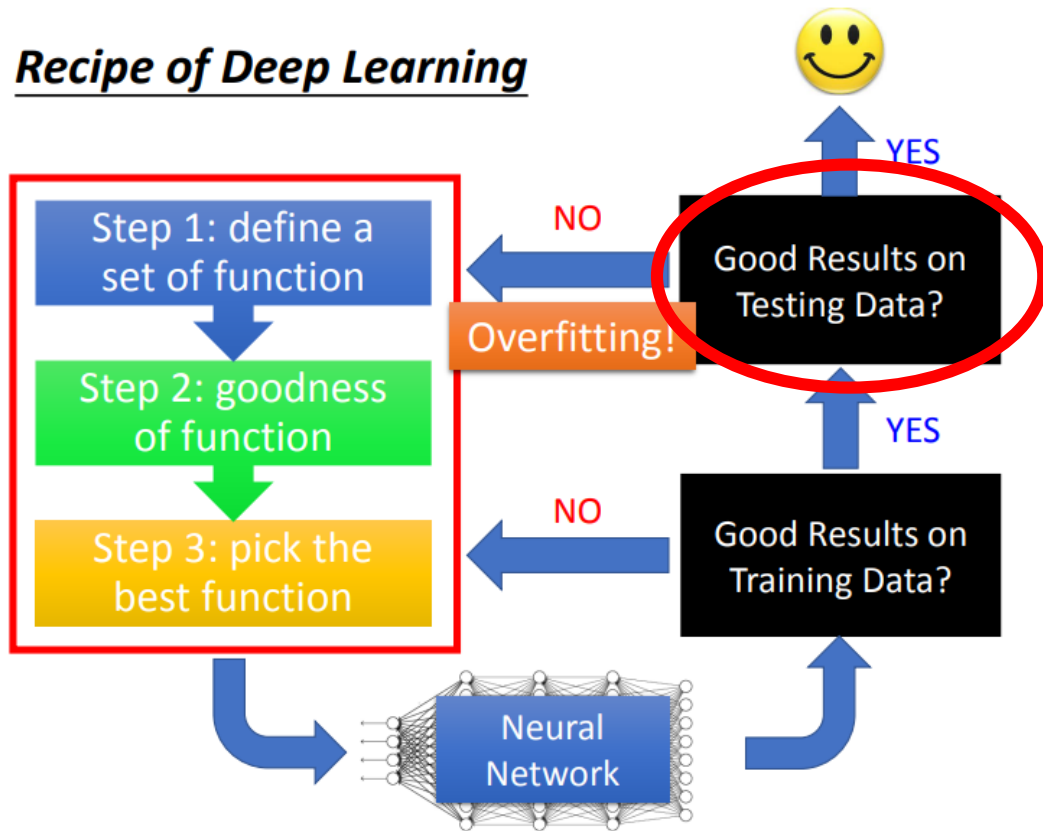
How is the training performance?

Recipe of Deep Learning



How is the test performance?

Recipe of Deep Learning



Solve overfitting

Recipe of Deep Learning

