109.1 IOTBigData Final Form-AI (Decision Tree)

Your works: Your team needs to implement the Decision Tree algorithms mentioned in this course in which the data set at your works is 500M at least. The motivation and purposes of your implementation are decided by your team, rather than from somebody else. However, you have to make them reasonable for your works in order to get a nice grade. Your Chinese writing is connected to your grade.

---Every team should have different works.---

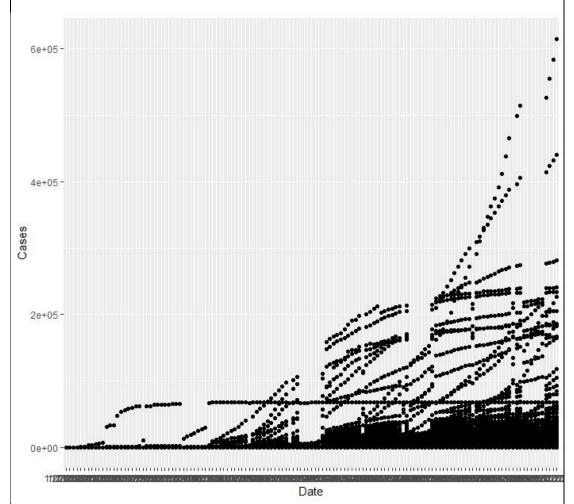
Title of your works: 政府對於新冠肺炎數據建立防疫措施	
Chinese Name/ ID	蘇宇祥/4070E021
Chinese Name/ ID	沈明楷/4070E022
Code submission	R code is submitted as attached
Url shorten for your	https://reurl.cc/Ag1O6Z
dataset	
a. What are the variables	a. Case_Type,People_Total_Tested_Count,
you use for your model	Cases, Difference, Date, Combined_Key,
creation.	Country_Region,Province_State,Admin2,iso2,
b. Please write down the	iso3,FIPS,Lat,Long,Population_Count,
column names and	People_Hospitalized_Cumulative_Count,
their corresponding	Data_Source,Prep_Flow_Runtime
Chinese names.	b.個案類型、人數總計、確診人數、區別、日
	期、組合鍵、國家地區、省州、管理員、iso2、
	iso3、處理技術、年份、長期、人數統計、確診
	民眾住院累積人數、資料來源、流動時間
What is the goal/ target	日期、確診人數
variable in your project?	
a. Any data cleaning	a.有
works in your project?	b.無
b. If yes, what are ap i	
statements you use	
for these?	
Please analyze your data	a.
on your EDA stage .	b.
Notice: please describe	
the each variables and	
their data distribution for	
your works.	
a. What kind of api	

statements you use for your model creation?	
creation?	
b. What is algorithm you	
use for Decision Tree	
model creation?	
a. What is the method	
your algorithm uses to	
split up a tree node?	
b. What are the pruning	
skills you use for your	
model creation?	
Why?	
c. Also, please provide	
the corresponding	
api statements.	
a. How do you train your	
training data?	
ex. Method, data	
proportion to training	
data, possible outputs	
and so on.	
b. Show your api	
statements for	
these.	
a. What are the	
estimations you use	
for verifying your	
model is all right?	
b. What are the	
corresponding values	
for the estimations?	
Motivation 目前新冠肺炎在全世界造成極大影響,病	
略速度越來越快,以致全世界各國都有確	
例,而希望藉由數據分析來查看各國確	診狀
況,以掌握病毒路徑,較好控制疫情。	

Purposes	透過新冠肺炎數據分析,得到各國確診人數與 日期比例,可得知確診人數增加或減少,能提 供給政府做政策上的調配與整頓,建立完善防 疫措施,好讓疫情能快速過去。

Outputs for your analysis and related works:

(Each photo for your output needs to be attached a corresponding description.) 結果呈現



從圖可知,當日期越往前走時,確診人數越多,所以在未來的日子,各國政府需自訂更好的防疫措施,以降低疫情持續擴散和確診人數增加的機率。

