資料探勘專案作業一

決策樹預測類別數值

指導教授：

許中川 教授

成員：

M11021012 林承威

M11021028 劉軒瑋

M11021052 邱守燦

M11021059 李鴻庭

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**摘要**

過往都以傳統的統計模型，進行分類預測，但隨著時代的演進，機器學習技術已逐漸取代。透過不同的演算法、參數設定，從大量數據中挖掘分析，得到有用的資訊，這種技術稱為資料探勘。本次研究分別使用Adult Dataset及Wine-quality Dataset，探討影響薪資高於50,000之屬性、影響白酒品質等級之屬性，透過資料前處理抓取特徵及屬性，將資料集分割為80%訓練資料、20%測試資料，使用決策樹(Decision Tree)分類預測方法，最後透過訓練資料與測試資料的比對，並根據混淆矩陣之結果得知，Adult Dataset使用Capital-gain、Marital-status、Education-num屬性、Wine-quality Dataset使用Alcohol、volatile acidity屬性進行分類時，準確度分別為83%及51%。

關鍵字：決策樹(Decision Tree)、隨機森林(Random Forest)。

1. **緒論**

1.1動機

1.1.1 Adult Dataset

經濟不景氣，在民生物價持續喊漲，房價只升不跌的大環境下，如何增加收入，已是每個人必須研究的課題，據國勢處普查局統計，2020全年工業及服務業受雇員工平均月薪資為54,320元。倘若有一決策樹，以年收入是否大於特定薪資做類別，輸入相關資訊後能正確分類，並準確率夠高的話，反過來說，薪資大於某個數值的人，都擁有決策樹上相對應的特質，或許就能深入探討為何這群人能達成如此高的收入，以供研究者研究。

1.1.2 Wine-quality Dataset

　　高檔白酒，與能開懷暢飲的普通啤酒、便宜酒類等不同，一般人僅在特定節日搭配高級料理飲用。白酒能透過口感輕盈或厚實、甜度清爽或酸度濃度來區分等級，但這終究屬於主觀感受，並不是每個人都能品嘗處個別差異。倘若能透過客觀數據來分類白酒等級，對於消費者來說，說服力較高；對於釀造的酒廠而言，也能監測相關數據，來控制產出白酒的等級，也能制定等級與相對應的價格，供消費者選擇，提升產品競爭力。

1.2研究目的

1.2.1 Adult Dataset

　　為了瞭解收入大於特定值的人，大部分都擁有哪些特質，本組選取Adult資料集，並使用決策樹與隨機森林進行分類，投入工作類別、婚姻狀況、教育程度、職業、所屬國籍等15種屬性資料，但礙於資料集提供的資料限制，本次研究所分類出的類別設定為大於50,000元，經決策樹與隨機森林進行分類過後，將得知哪些屬性將會被分類到大於薪資50,000元的類別，以此來反推大於50,000元者擁有哪些屬性。

1.2.2 Wine-quality Dataset

　　隨著檢測儀器的精密度提升、量測技術的發展，釀造酒廠可以隨時監控酒精在體內包含的各種物質，根據提供的Wine-quality資料集，裡面包含固定酸度(Fixed acidity)、檸檬酸(Critric acid)、剩餘糖分(Residual sugar)、酒精(Alcohol)、氯化物(Chlorides)等12個屬性資料，為了能有效且客觀的定義酒品等級，採用決策樹與隨機森林替酒品等級做分類，切割80%的訓練資料集與20%的測試資料集，對品質(Quality)類別做分類預測，解決過往主觀感受評級的問題。

1. **方法**

2.1程式架構

2.1.1 Adult Dataset



圖一 Adult Dataset之程式架構流程圖及說明

2.1.2 Wine-quality Dataset



圖二Wine-quality Dataset之程式架構流程圖及說明

2.2程式執行方法

2.2.1決策樹(Decision Tree)

　　決策樹(Decision Tree)是一種特殊的樹狀結構，透過像樹枝一樣的圖形或決策模型的支持工具，它是一個監督式學習的演算法，決策樹經常在運籌學中使用，特別是在決策分析中，它幫助決策者確定一個最可能達到目標的策略並用來輔助決策。

2.2.2 隨機森林(Random Forest)

隨機森林(Random Forest)是一個包含多個決策樹的分類器，並且其輸出的類別是由個別樹輸出的類別的眾數而定，隨機森林的重點在於抽樣，其樣本抽樣設計是採取後放回，並且在遇到過度配置時，隨機森林能夠解決，因為在大數法則下決策樹的結果會趨向一致，能夠大幅降低錯誤率。

2.2.3 KDD

KDD表示將低層數據轉換為高層知識的完整過程，KDD在獲取資料後，將資料處理並清洗，再將資料轉換成數學模式，進而建模，並在最後從中發掘有意義且具有價值的資訊，並評估其成效。

1. **實驗**

3.1資料集

3.1.1 Adult Dataset說明

　　此資料集建立於1996年5月1日共有48,842筆，15個欄位。

表一 Adult Dataset 欄位資料說明彙總表

|  |  |
| --- | --- |
| 欄位名稱 | 欄位說明 |
| Age | 年齡 |
| Workclass | 工作類別 |
| Fnlwgt | 連續數值 |
| Education | 教育程度 |
| Education-num | 教育人數(連續數值) |
| Marital-status | 婚姻狀況 |
| Occupation | 職業 |
| Relationship | 關係 |
| Race | 種族 |
| Sex | 性別 |
| Capital-gain | 資本收益 |
| Capital-loss | 資本損失 |
| Hours-per-week | 小時/周 |
| Native-country | 所屬國家 |
| Salary | 年收入 |

3.1.2 Wine-quality Dataset 說明

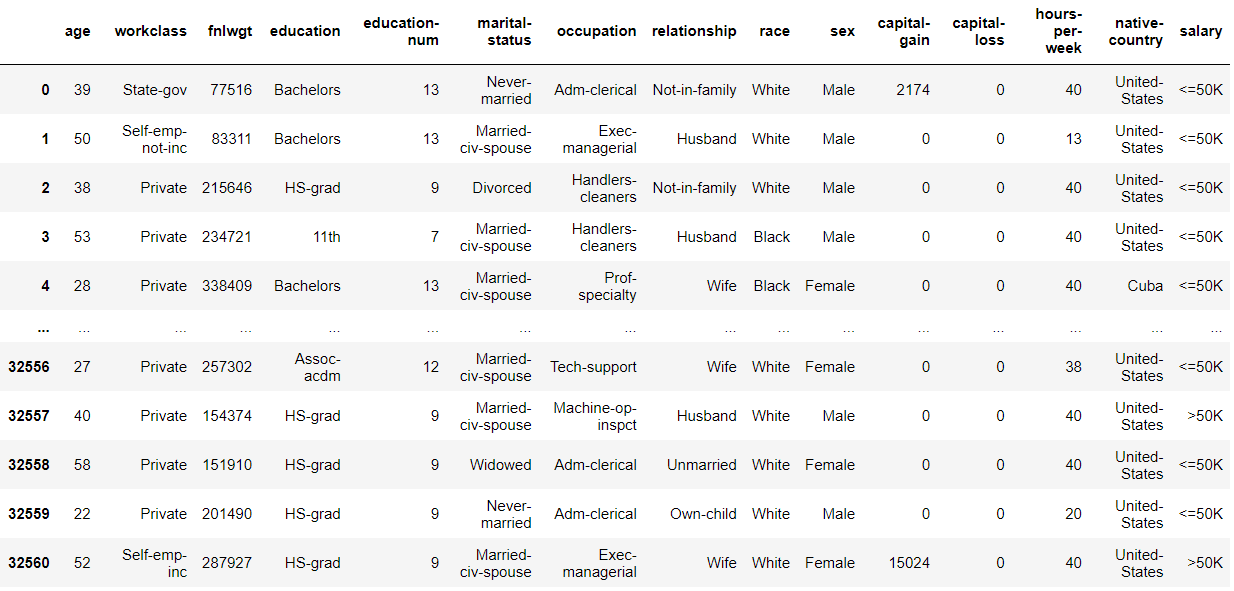
　　此資料集建立於2018年9月7日共有4899筆，12個欄位。

表二 Wine-quality Dataset 欄位資料說明彙總表

|  |  |
| --- | --- |
| 欄位名稱 | 欄位說明 |
| Fixed acidity | 固定酸度 |
| Volatile acidity | 揮發性酸度 |
| Critric acid | 檸檬酸 |
| Residual sugar | 剩餘糖分 |
| Chlorides | 氯化物 |
| Free sulfur dioxide | 游離二氧化硫 |
| Total sulfur dioxide | 二氧化硫總量 |
| Density | 密度 |
| pH | 酸鹼值 |
| Sulphates | 硫酸鹽含量 |
| Alcohol | 酒精 |
| Quality | 品質 |

3.1.3實驗數據

(1) Adult Dataset資料集



圖一 Adult Dataset資料集

(2) Wine-quality Dataset資料集

一張含有 文字, 白色, 螢幕擷取畫面 的圖片

自動產生的描述

圖二 Wine quality Dataset資料集

(3)Adult Train資料集

一張含有 文字, 白色 的圖片

自動產生的描述

圖三 Adult Train資料集

3.2前置處理

3.2.1 Adult Dataset

　　將Adult資料集，由原來的txt檔案格式轉換為csv檔案格式，發現在些許的資料欄位中具有不必要的符號資料，進行資料的清洗，利用lambda語法將具有’?’資料篩選與過濾，完成資料清洗，接著將Adult Dataset裡面文字屬性使用Labelencoder進行轉碼，最後讀取印出完成資料的前置處理。

3.2.2 Wine-quality Dataset

　　將Wine-quality資料集，利用Pandas套件的DataFrame物件讀取csv檔，使用isna函數檢查資料欄位中是否有缺失值，將資料過濾，完成資料的前置處理。

3.3實驗設計

3.3.1 Adult Dataset

(1)套件載入:由Scikit-Learn演算法載入決策樹的分類(Classifier)套件、決策樹建模的分離(train\_test\_split)套件、決策樹度量的分類報表(classification\_report)與混淆矩陣(confusion\_matrix)套件，最後載入python的繪圖語言(pydot)與建立記憶體內的str輸入輸出空間(StringIO)。

(2)隨機森林繪製:安裝並啟動Graphviz開源工具，由StringIO的輸入pydot指令繪製pydot語言敘述的圖形，最後透過特徵值(feature\_names)、分類值(class\_names)的定義，繪製出隨機森林。

(3)修剪:載入matplotlib套件，界定各節點的不純度的路徑，由圖表呈現訓練資料集的實際擬合程度()，並在訓練資料集完成葉節點與深度的擬合程度評估，再由圖表呈現訓練資料集與測試資料集各自精確度的擬合程度，觀察是否有過度訓練(overfitting)的情形，並在()做決策樹修剪。

(4)決策樹繪製:由擬合程度()進行修剪，並繪製出決策樹。

3.3.2 Wine-quality Dataset

(1)將資料集做分割(80%為train，20%為test )，載入Scikit-Learn演算法決策樹的分類(Classifier)套件、決策樹建模的分離(train\_test\_split)套件、決策樹度量的分類報表(classification\_report)與混淆矩陣(confusion\_matrix)套件，最後載入python的繪圖語言(pydot)與建立記憶體內的str輸入輸出空間(StringIO)

(2)隨機森林繪製:安裝並啟動Graphviz開源工具，由StringIO的輸入pydot指令繪製pydot語言敘述的圖形，最後透過特徵值(feature\_names)、分類值(class\_names)的定義，繪製出隨機森林。

(3)修剪:載入matplotlib套件，界定各節點的不純度的路徑，由圖表呈現訓練資料集的實際擬合程度()，並在訓練資料集完成葉節點與深度的擬合程度評估，再由圖表呈現訓練資料集與測試資料集各自精確度的擬合程度，觀察是否有過度訓練(overfitting)的情形，並在()做決策樹修剪。

(4)決策樹繪製:由擬合程度()進行修剪，並繪製出決策樹。

3.4實驗結果

3.4.1 Adult Decision Tree績效評估

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | recall | f1-score | support |
| 0[<=50K] | 0.88 | 0.87 | 0.88 | 4495 |
| 1[>50K] | 0.63 | 0.65 | 0.64 | 1538 |
| Accuracy |  |  | 0.82 | 6033 |
| Macro avg | 0.76 | 0.76 | 0.76 | 6033 |
| Weighted avg | 0.82 | 0.82 | 0.82 | 6033 |

表一 修剪前Adult Decision Tree績效評估(Accuracy=0.82)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | recall | f1-score | support |
| 0[<=50K] | 0.87 | 0.92 | 0.89 | 4584 |
| 1[>50K] | 0.70 | 0.55 | 0.61 | 1449 |
| Accuracy |  |  | 0.83 | 6033 |
| Macro avg | 0.78 | 0.74 | 0.75 | 6033 |
| Weighted avg | 0.83 | 0.83 | 0.83 | 6033 |

表二 修剪後Adult Decision Tree績效評估(Accuracy=0.83)

3.4.2 Wine-quality Decision Tree績效評估

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | recall | f1-score | support |
| 3 | 0 | 0 | 0 | 3 |
| 4 | 0.44 | 0.37 | 0.40 | 38 |
| 5 | 0.61 | 0.61 | 0.61 | 283 |
| 6 | 0.69 | 0.67 | 0.68 | 462 |
| 7 | 0.58 | 0.64 | 0.61 | 153 |
| 8 | 0.38 | 0.38 | 0.38 | 39 |
| 9 | 0 | 0 | 0 | 2 |
| Accuracy |  |  | 0.62 | 980 |
| Macro avg | 0.38 | 0.38 | 0.38 | 980 |
| Weighted avg | 0.62 | 0.62 | 0.62 | 980 |

表三 修剪前Wine-quality Decision Tree績效評估(Accuracy=0.62)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | recall | f1-score | support |
| 3 | 0 | 0 | 0 | 1 |
| 4 | 0 | 0 | 0 | 30 |
| 5 | 0.52 | 0.66 | 0.59 | 291 |
| 6 | 0.50 | 0.62 | 0.56 | 442 |
| 7 | 0.51 | 0.21 | 0.30 | 173 |
| 8 | 0 | 0 | 0 | 40 |
| 9 | 0 | 0 | 0 | 3 |
| Accuracy |  |  | 0.51 | 980 |
| Macro avg | 0.22 | 0.21 | 0.21 | 980 |
| Weighted avg | 0.47 | 0.51 | 0.48 | 980 |

表四 修剪後Wine-quality Decision Tree績效評估(Accuracy=0.51)

1. **結論**

4.1 Adult Dataset

　　本研究將Adult Dataset使用分為80%的訓練資料與20%的測試資料，並使用決策數與隨機森林對Salary類別做分類。

4.2.1節點選擇

節點(1) Capital\_gain

節點(2) Marital-status

節點(3) Education-num

4.2.2 整體績效

(1) 修剪前Accuracy = 0.82

(2) 修剪後Accuracy = 0.83

![一張含有 文字 的圖片

自動產生的描述](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFTVVMAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NwAAkpIAAgAAAAM2NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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圖四 Adult Dataset決策樹

4.2 Wine-quality Dataset

　　本研究將Wine-quality Dataset使用分為80%的訓練資料與20%的測試資料，並使用決策數與隨機森林對Quality類別做分類。

4.2.1節點選擇

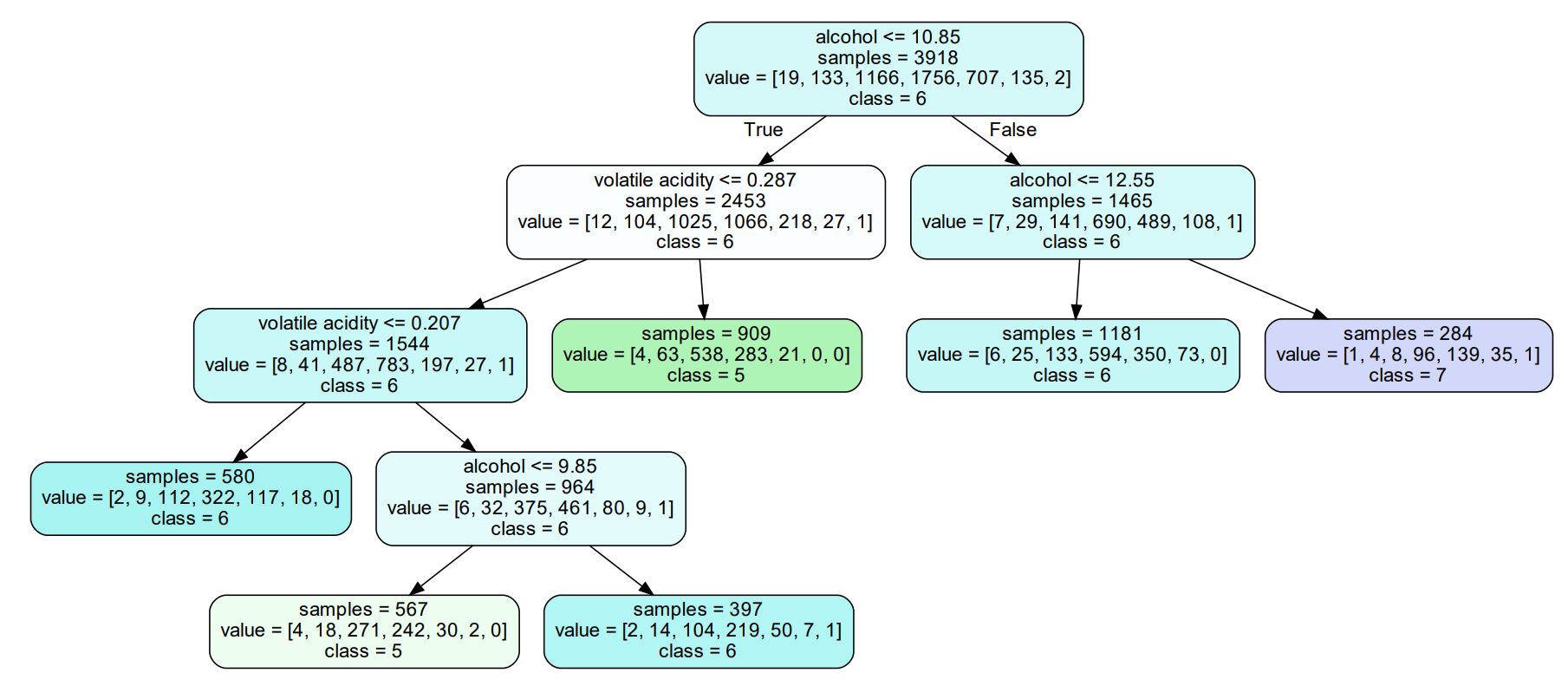
節點(1) alcohol

節點(2) volatile acidity

4.2.2 整體績效

(1) 修剪前Accuracy = 0.62

(2) 修剪後Accuracy = 0.51



圖五 Wine-quality Dataset決策樹

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