**Data**

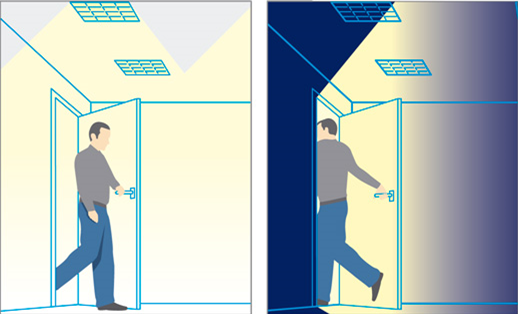
**Occupancy Detection Dataset**

사람의 존재에 따른 사무실의 환경

건강한 사무실 공간을 위한 데이터 분석

사람의 존재에 따른 사무실의 환경

## **건강한 사무실 공간을 위한 데이터 분석**



드라마나 책 등의 묘사에서 가끔 등장하는 표현이 있다. 그것은 바로 “아무도 없는 싸늘한 집” 이라는 묘사이다. 이와 대조적으로 화목한 가족들과 함께하는 집을 묘사하는 경우 따뜻한, 밝음이라는 단어들로 묘사된다. 이러한 경우를 보며 과학적으로 사람이 있는 경우와 없는 경우 방의 온도나 여러 요소들이 정말로 차이가 나는지에 대해 궁금증이 생기게 되어 이 데이터를 분석하게 되었다.

사람이 사용하고 있는 방과 사람이 없는 방의 데이터를 비교하여 온도, 습도, 빛의 세기, 이산화탄소의 농도가 얼마나 차이가 나는지를 확인해 보려 한다. 또한 각각의 조건들이 사람이 있는 방일 경우 평균적으로 어느 정도의 수치를 보이는 지 분석해 보려 한다.

분석에는 UCI에서 제공하는 ‘Occupancy Detection Data Set’ 데이터를 이용하였다.

-데이터 출처 : UC Irvine Machine Learning Repository (<https://archive.ics.uci.edu/ml/datasets/Occupancy+Detection+>)

- 사무실의 온도, 습도, 조명 및 에서의 이진 분류(실내 점유)에 사용되는 실험 데이터

- 2665개의 Test 데이터1, 9752개의 Test 데이터2, 8143의 Training 데이터

**변수의 이름과 설명**

1. Date time Year-Month-Day Hour:Minute:Second : 사무실의 상태를 측정한 시간. (년-월-일 시:분:초)
2. Temperature(Celsius) : 측정한 사무실의 온도. Celsius(섭씨)로 나타낸다. 섭씨의 기호는 °C이며, 1 atm에서의 물의 어는점을 0도, 끓는점을 100도로 정한 온도 체계이다.
3. Relative Humidity(%) : 측정한 사무실의 상대 습도. 특정한 온도의 대기 중에 포함 되어있는 수증기의 압력을 그 온도의 포화 수증기 압력으로 나눈 것이다.
4. Light(Lux) : 측정한 사무실이 받는 빛의 세기. Lux(럭스)로 나타낸다. Lux의 기호는 lx이며, 빛의 조명도를 나타내는 단위이다.
5. (ppm) : 측정한 사무실의 이산화탄소 농도. ppm으로 나타낸다.
6. Humidity Ratio(kg water-vapor/kg-air) : 온도 및 상대 습도에 따라 도출된 비율이다.
7. Occupancy : 0 또는 1로 나타내며, 사람이 사용 중인 경우 1, 사람이 사무실에 없는 경우 0으로 나타낸다.

**사람이 생활하는데 적합한 방과 아닌 방을 나누어보자!**

Training 샘플을 분석하여 Occupancy가 1인 것과 0인것으로 분류 하였다.

0일 때 사람이 존재하지 않은 방이며, 1일 때 사람이 있는 방이라 할 수 있다.

**사람의 유무에 따라 사무실의 환경이 바뀔까?**

우선 사람이 있는 방과 없는 방의 환경 조건들이 얼마나 다른 지를 알아보기 위해 일부 표본 데이터를 골라 분석해 보았다. 사람이 있는 방인 경우 5개와 사람이 없는 방인 경우 5개의 데이터는 다음과 같다.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Temperature** | **Humidity** | **Light** | **CO2** | **Humidity Ratio** |
| **사람이**  **있는**  **방**  **(Occupancy=1)** | 23.18000 | 27.27200 | 426.000000 | 721.2500 | 0.004792988 |
| 23.15000 | 27.26750 | 429.500000 | 714.0000 | 0.004783441 |
| 23.15000 | 27.24500 | 426.000000 | 713.5000 | 0.004779464 |
| 23.10000 | 27.20000 | 419.000000 | 701.6667 | 0.004756993 |
| 23.05000 | 27.15000 | 419.000000 | 687.5000 | 0.004733732 |
| **사람이**  **없는**  **방**  **(Occupancy=0)** | 22.94500 | 27.29000 | 0.000000 | 685.0000 | 0.004727951 |
| 22.89000 | 27.39000 | 0.000000 | 689.5000 | 0.004729506 |
| 22.89000 | 27.39000 | 0.000000 | 689.0000 | 0.004729506 |
| 22.60000 | 27.42667 | 0.000000 | 658.0000 | 0.004652699 |
| 22.39000 | 27.34000 | 0.000000 | 630.5000 | 0.004578647 |

요소들 중 빛의 세기(Light)가 가장 눈에 띄는 차이를 보였다. 사람이 있는 경우에는 빛의 세기가 429.5~419 사이인 반면, 사람이 없는 경우에는 빛이 모두 0이다. 이는 사람이 있을 때 형광등을 켜고 사람이 없는 경우 형광등을 끄는 행동 때문이라고 생각된다. 이를 고려하면 빛의 세기(Light)가 가장 중요한 변수일 것이라고 생각한다.

또한 이산화탄소의 양()은 사람이 있는 경우 721.25~687.5 정도의 농도인 반면, 사람이 없는 경우에는 그보다 적은 농도 부근인 689.5~630.0의 농도인걸 알 수 있다. 이 경우 사람이 있는 경우 사람들이 호흡을 하기 때문이라고 생각되며 사람이 있는 경우에 상대적으로 이산화탄소 양이 많다는 것을 알 수 있다.

Humidity의 경우 사람이 있을 때 27.272~27.15정도의 분포인 반면 사람이 없는 경우 그보다 높은 27.42667~27.29 정도의 분포이다.

Temperature의 경우 사람이 있을 때 23.18~23.05인 반면, 사람이 없는 경우 그보다 적은 부근인 22.945~23.39 정도의 분포이다. 이 경우 사람의 체온 때문에 사람이 있는 경우의 온도가 상대적으로 높다고 생각된다.

Humidity Ratio 경우 Humidity와 Temperature에 의한 값이므로 생략하도록 한다.

**7가지 요소 중 무엇이 제일 중요할까?**

Occupancy에 따른 날짜(Date), 온도(Temperature), 습도(Humidity), 빛의 세기(Light), 이산화탄소 양(), Humidity Ratio의 중요도를 파악해보자

(우선 Date변수는 사람의 유무와는 관계없으므로 데이터에서 제외하였다.)

R의 rpart 패키지를 통해 나타낸 결과를 보면 변수 중요도가 아래와 같이 수치로 나타나 있다.

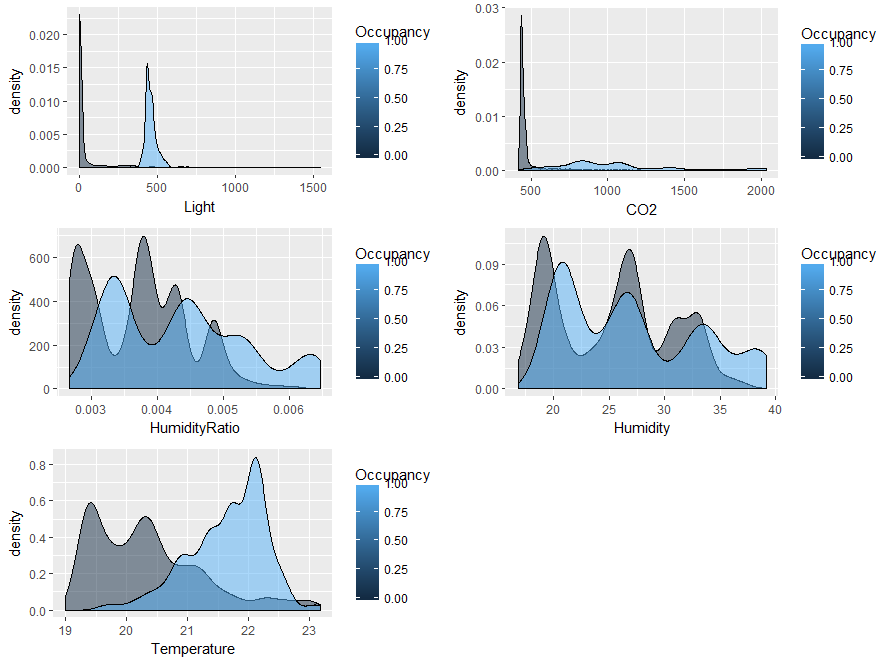
![텍스트이(가) 표시된 사진

매우 높은 신뢰도로 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDQRXhpZgAATU0AKgAAAAgABAE7AAIAAAADTEcAAIdpAAQAAAABAAAISpydAAEAAAAGAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAMxMQAAkpIAAgAAAAMxMQAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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이를 통해 빛의 세기를 나타내는 변수가 사람의 유무를 구분하는 요소로써 제일 중요함을 알 수 있다

**더욱 보기 쉽게! 조건에 따른 시각화**

분포를 살펴보기 위해서 두 집단의 그래프를 서로 다른 색으로 겹쳐 그리기로 했다. Occupancy가 0인 경우 어두운 색, Occupancy가 1일 경우 밝은 색으로 나타냈다. RStudio를 사용하여 R의 ggplot2패키지를 이용하여 함수를 그릴 수 있으며 Light, , Humidity Ratio, Humidity, Temperature의 분포를 그리면 다음과 같다.



Light의 그래프의 경우 (Occupancy=0)의 그래프는 거의 대부분 0에 위치하고 있으며, (Occupancy=1)의 그래프는 500 부근에 집중되어 있는 것을 그래프를 통해 알 수 있다.

의 그래프의 경우 (Occupancy=0)의 그래프는 0부근에 치우쳐 있으며, (Occupancy=1)의 그래프는 고르게 분포되어 있는 듯 하나 1000부근에 수가 많은 것을 그래프를 통해 알 수 있다.

Humidity Ratio의 그래프의 경우 (Occupancy=0)의 그래프는 (Occupancy=1)의 그래프와 비교하여 (Occupancy=1)의 그래프가 높으면 낮은 반 비례적인 성질을 가지고 있는 것으로 보인다.

Humidity의 그래프의 경우 (Occupancy=0)과 (Occupancy=1)의 그래프가 비슷하나 (Occupancy=0)의 그래프가 평균적으로 (Occupancy=1)의 그래프 보다 높다는 것을 알 수 있다.

Temperature의 그래프의 경우 (Occupancy=0)의 그래프는 낮은 온도 즉, 19~20도 쪽에 치우친 반면, (Occupancy=1)의 그래프는 높은 온도 즉, 21~23도 쪽에 치우친 것을 그래프를 통해 알 수 있다.

이렇게 시각화 그래프를 보면 (Occupancy=0)일 때의 그래프와 (Occupancy=1)일 때의 그래프가 각각의 조건에서 뚜렷하게 구분된 다는 것을 알 수 있다. 특히 Humidity Ratio나 Humidity의 그래프 보다 더욱 확연히 그래프가 분리되어 있는 Light와 Temperature 그래프가 사람의 유무를 구분하는 기준으로 더 적합하다는 생각이 든다.

***Occupancy Detection Model***

Occupancy Detection 데이터는 class를 0과 1로 분류하는 Binary Classification 형태이다. 따라서 0과 1 사이의 값을 표현할 수 있어야 한다. 이를 가능하게 하는 함수는 Logistic(Sigmoid) Function 이므로, 이 함수를 적용시키는 로지스틱 회귀모형을 이용하여 판별해 보았다.

**Logistic Regression**

R의 glm함수를 사용하여 로지스틱 회귀분석을 나타낼 수 있다.

|  |  |  |
| --- | --- | --- |
|  | Occupancy-NO | Occupancy-YES |
| Logistic Regression | **82(1.35%)** | **6025(98.65%)** |

모형 적합하여 살펴보면 0.9951349, 약99.5%의 예측력임을 알 수 있다.

또한 ROC곡선을 통해 로지스틱 회귀분석 모형의 정확도를 파악할 수 있다.

지도, 스크린샷, 텍스트이(가) 표시된 사진

높은 신뢰도로 생성된 설명

-X축 : FPR(False Positive rate)로 방이 사용되지 않았을 때 사용되었다고 잘못 예측된 비율

-Y축 : TPR(True positive rate)로 방이 사용되었을 때 사용되었다고 정확히 예측된 비율

(좋은 모형일수록 ROC 곡선의 기울기가 매우 급하며 곡선 아래의 넓이(AUC, Area Under Curve)가 1에 가깝다.)

지금까지 Training 집합과 Validation집합으로 학습과 예측을 해보았다. 마지막으로 Test집합으로 모형을 평가해보겠다.

**# Test 1(2665개의 데이터)**

Test 1 집합으로 모형을 평가해 본 결과 0.9911114, 즉 99.1%의 정확도임을 알 수 있었다.

스크린샷이(가) 표시된 사진

매우 높은 신뢰도로 생성된 설명

분계점에 따른 정확률곡선을 그려보면 0.8과 1.0 사이에서 감소하지만 비교적 정확도가 높다는 것을 알 수 있다.

**# Test 2(19752개의 데이터)**

Test 2 집합으로 모형을 평가해 본 결과 0.9953472, 즉 99.5%의 정확도임을 알 수 있다.스크린샷, 지도이(가) 표시된 사진

매우 높은 신뢰도로 생성된 설명

분계점에 따른 정확률곡선을 보면 어느 분계점에 있더라도 정확률이 80%이상임을 파악할 수 있다.

지도, 스크린샷이(가) 표시된 사진

높은 신뢰도로 생성된 설명

ROC 곡선을 통해 비교해보면 Test 2 집합이 정확도가 더 높음을 알 수 있다.

로지스틱 회귀분석 모형을 이용하여 Occupancy에 대한 정확도를 확인해 보았다.



1학기에 학교에서 신설된 ‘데이터과학기초’라는 과목을 수강하면서 데이터과학에 대해 알게 되었다. 강의시간에 WDBC(Wisconsin Diagnostic Breast Cancer Data Set) 데이터를 이용하여 3개의 모형을 평가해보는 시간을 가졌었다. Categorical 특성 데이터만 다뤄보았기에 Binary Classification 데이터 분석하는 것이 흥미로웠다. 앞으로 더욱 다양한 데이터 분석을 시도해 보고 싶다.