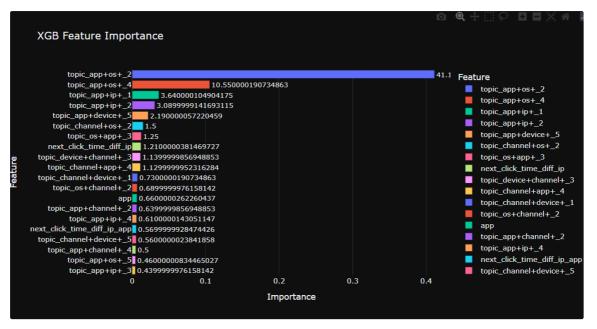
08.07~

- test 버리기
 - time_dh 불연속적이므로, test 데이터를 버리는 것으로
- Kmeans

- LDA 100개 중에 골라서
 - 피쳐 중요도 상위 몇 개만 남겨두는 방식

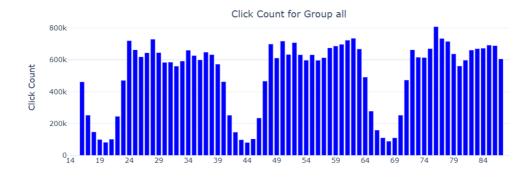


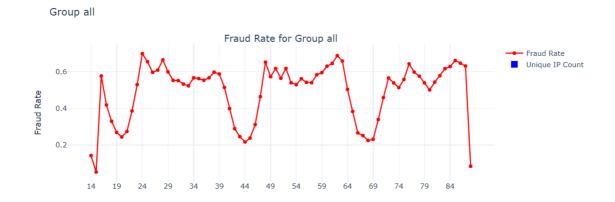
- o app X 4개 (+20개)
- 4개 X app (+20개)
- o channel X 4개
- o 4개 X channel
- ⇒ 40개만 채택
- o threshold
 - = 0.000034

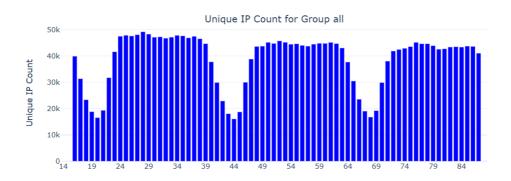
10261 4.971896501598992%

■ 전체 IP유저: 206,380

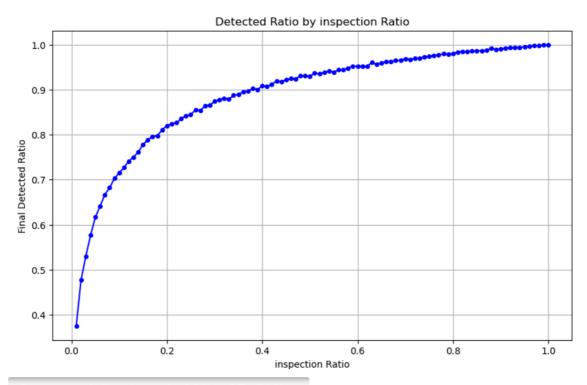








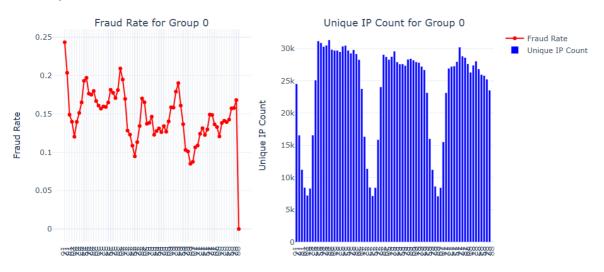
- 한 번 걸러진 IP는 계속 블락
 - ∘ y축: 모든 시간이 흘렀을 때, 최종적으로 detect한 fraud 유저 비율
 - o x축: inspection rate



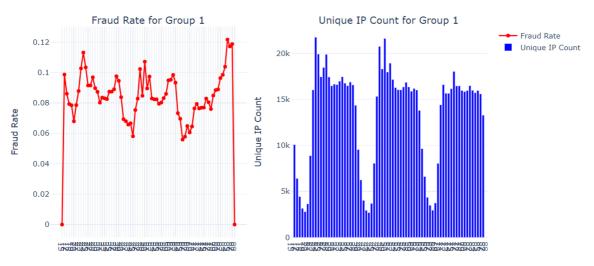
Detected Ratio: 1.00%, 37.51%
Detected Ratio: 2.00%, 47.70%
Detected Ratio: 3.00%, 52.97%
Detected Ratio: 4.00%, 57.64%
Detected Ratio: 5.00%, 61.65%
Detected Ratio: 6.00%, 64.12%
Detected Ratio: 7.00%, 66.70%
Detected Ratio: 8.00%, 68.21%
Detected Ratio: 9.00%, 70.29%
Detected Ratio: 10.00%, 71.49%

● 랜덤 샘플링할 때 click hour가 정렬이 돼있는지 → 속도 이슈 차 점검 필요

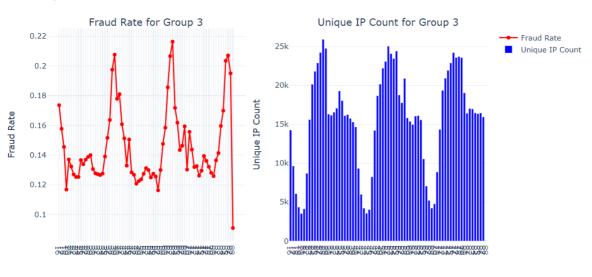


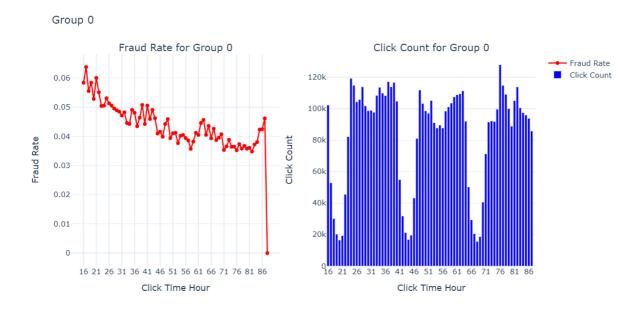


Group 1



Group 3







의심: 그룹마다 왜 time_dh가 달라지는지???

→ 그룹별로 time_dh 분포가 다르지 않았음, 저번 코드가 실행이 잘못된 듯.

app마다 time_dh

• 평균 26.96개의 time_dh