analysis for lai et al.

2023-12-22

In this document, we run the reliance framework analysis for deception detection task and its corresponding explanations in Lai et al. We estimate the behavioral agents' joint behavioral $\pi(\theta, v, a^b)$ by the empirical distribution in the experiment data. We first show the results using approximation of rational benchmark and the mis-reliant rational benchmark with overfitting to the empirical distribution and then show the results using approximation with the discretized signals.

```
con <- file('./label.json', "r")</pre>
raw_data <- ldply(fromJSON(con), data.frame)</pre>
raw_data = raw_data %>% group_by(review_text) %>% mutate(review_id = cur_group_id())
human_predictions = raw_data %>% filter(experiment == "control" | experiment == "highlight" |
                                           experiment == "heatmap" | experiment == "examples")
exp_data = raw_data %>% filter(experiment != "control" & experiment != "highlight" &
                                           experiment != "heatmap" & experiment != "examples")
human_predictions = human_predictions %>%
  select(-predicted_label) %>%
  left join(exp data %>%
              select(predicted_label, review_text) %>%
              distinct(), by = c("review text")) %>%
  mutate(predicted_label = as.numeric(predicted_label))
scoring_rule = function(action, state) {
  (action == state)
}
task data = raw data %>% group by(review text) %>% summarise(review id = cur group id())
corpus = tm::Corpus(tm::VectorSource(task_data$review_text))
corpus.cleaned <- tm::tm_map(corpus, tm::removeWords, tm::stopwords('english')) # Removing stop-words
## Warning in tm_map.SimpleCorpus(corpus, tm::removeWords,
## tm::stopwords("english")): transformation drops documents
corpus.cleaned <- tm::tm_map(corpus, tm::stemDocument, language = "english") # Stemming the words
## Warning in tm map.SimpleCorpus(corpus, tm::stemDocument, language = "english"):
## transformation drops documents
corpus.cleaned <- tm::tm_map(corpus.cleaned, tm::stripWhitespace) # Trimming excessive whitespaces
## Warning in tm_map.SimpleCorpus(corpus.cleaned, tm::stripWhitespace):
## transformation drops documents
tdm <- tm::DocumentTermMatrix(corpus.cleaned)</pre>
tdm.tfidf <- tm::weightTfIdf(tdm)</pre>
tdm.tfidf <- tm::removeSparseTerms(tdm.tfidf, 0.99)
tfidf.matrix <- as.matrix(tdm.tfidf)</pre>
predict.kmeans <- function(object, newdata){</pre>
  centers <- object$centers</pre>
```

```
n_centers <- nrow(centers)</pre>
  dist_mat <- as.matrix(dist(rbind(centers, newdata)))</pre>
  dist_mat <- dist_mat[-seq(n_centers), seq(n_centers)]</pre>
 list(cluster = max.col(-dist_mat), total_error = sum(apply(dist_mat, 1, function(x) min(x))))
}
number_of_partition = 10
partition_size = nrow(tfidf.matrix) / number_of_partition
best.K = -1
best.benchmark = c()
best.test_sd = Inf
for (K in seq(10, 200, 10)) {
  benchmark = c()
  for (i in seq(1, nrow(tfidf.matrix), partition_size)) {
   test_set = tfidf.matrix[i:min(i + partition_size - 1, nrow(tfidf.matrix)),]
   training_set = tfidf.matrix[-(i:min(i + partition_size - 1, nrow(tfidf.matrix))),]
    clustering.kmeans <- kmeans(training_set, K)</pre>
    cluster_number = predict(clustering.kmeans, test_set)$cluster
    test_questionId = task_data$review_id[i:min(i + partition_size - 1, nrow(tfidf.matrix))]
   test_task_data = task_data %>% filter(review_id %in% test_questionId) %>% mutate(cluster = cluster_i
   test_human_predictions = human_predictions %>%
      filter(review_id %in% test_questionId) %>%
      left_join(test_task_data %>% select(review_id, cluster), by = c("review_id"))
   train_task_data = task_data %% filter(!(review_id %in% test_questionId)) %% mutate(cluster = clus
   train_human_predictions = human_predictions %>%
      filter(!(review_id %in% test_questionId)) %>%
      left_join(train_task_data %>% select(review_id, cluster), by = c("review_id"))
   test_rational_action = train_human_predictions %>%
      rbind(test_human_predictions) %>%
      group_by(user_label, predicted_label, cluster) %>%
      mutate(pos_human_payoff = scoring_rule(user_label, actual_label),
             pos_ai_payoff = scoring_rule(predicted_label, actual_label)) %>%
      summarise(pos_human_payoff = mean(pos_human_payoff),
                pos_ai_payoff = mean(pos_ai_payoff))
    benchmark = c(benchmark, (test_human_predictions %>%
      ungroup() %>%
      left_join(test_rational_action, by = c("user_label", "predicted_label", "cluster")) %>%
      mutate(benchmark_action = ifelse(pos_human_payoff > pos_ai_payoff, user_label, predicted_label))
      mutate(benchmark = scoring_rule(benchmark_action, actual_label)) %>%
      summarise(benchmark = mean(benchmark)))$benchmark)
  if (best.test_sd > sd(benchmark)) {
   best.test_sd = sd(benchmark)
   best.benchmark = benchmark
    best.K = K
 }
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## override using the `.groups` argument.
## [1] 50
clustering.kmeans <- kmeans(tfidf.matrix, best.K)</pre>
task_data = task_data %>% mutate(cluster = clustering.kmeans$cluster)
raw_data = raw_data %>% left_join(task_data, by = c("review_text", "review_id"))
human_predictions = raw_data %% filter(experiment == "control" | experiment == "highlight" |
                                          experiment == "heatmap" | experiment == "examples")
exp data = raw data %>% filter(experiment != "control" & experiment != "highlight" &
                                          experiment != "heatmap" & experiment != "examples")
human_predictions = human_predictions %>%
  select(-predicted_label) %>%
  left_join(exp_data %>%
              select(predicted label, review text) %>%
              distinct(), by = c("review_text")) %>%
  mutate(predicted_label = as.numeric(predicted_label))
exp_data = exp_data %>%
  left_join(human_predictions %>%
              select(human_pred = user_label, review_text),
            by = c("review text")) %>%
  mutate(predicted_label = as.numeric(predicted_label))
## Warning in left_join(., human_predictions %>% select(human_pred = user_label, : Detected an unexpect
## i Row 1 of `x` matches multiple rows in `y`.
## i Row 226 of `y` matches multiple rows in `x`.
## i If a many-to-many relationship is expected, set `relationship =
     "many-to-many" to silence this warning.
Approximating by overfitting to the empirical distribution
```

```
rational_action = human_predictions %>%
  group_by(user_label, predicted_label, review_text) %>%
  mutate(pos_human_payoff = scoring_rule(user_label, actual_label),
```

```
pos_ai_payoff = scoring_rule(predicted_label, actual_label)) %>%
  summarise(pos_human_payoff = mean(pos_human_payoff),
            pos_ai_payoff = mean(pos_ai_payoff))
## `summarise()` has grouped output by 'user_label', 'predicted_label'. You can
## override using the `.groups` argument.
rational_data = human_predictions %>%
  ungroup() %>%
  mutate(prior_human_payoff = mean(scoring_rule(user_label, actual_label)),
         prior_ai_payoff = mean(scoring_rule(predicted_label, actual_label))) %>%
  mutate(baseline_action = ifelse(prior_human_payoff > prior_ai_payoff, user_label, predicted_label)) %
  mutate(baseline = scoring_rule(baseline_action, actual_label)) %>%
  mutate(baseline2_action = ifelse(prior_human_payoff <= prior_ai_payoff, user_label, predicted_label))</pre>
  mutate(baseline2 = scoring_rule(baseline2_action, actual_label)) %>%
  left_join(rational_action) %>%
  mutate(benchmark_action = ifelse(pos_human_payoff > pos_ai_payoff, user_label, predicted_label)) %>%
  mutate(benchmark = scoring_rule(benchmark_action, actual_label)) %>%
  mutate(rational_reliance_level = (benchmark_action == predicted_label) & (user_label != predicted_lab
## Joining with `by = join_by(user_label, review_text, predicted_label)`
rational_data
## # A tibble: 6,400 x 24
      anonymized_worker_id experiment total_time_in_minutes user_label actual_label
##
                                                                  <dbl>
                                                                               <dbl>
##
      <chr>>
                           <chr>
                                                       <dbl>
##
   1 5AB84043BCE99
                           control
                                                          10
                                                                      0
                                                                                   0
## 2 5AB84043BCE99
                                                          10
                                                                      1
                                                                                   0
                           control
## 3 5AB84043BCE99
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## 4 5AB84043BCE99
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## 5 5AB84043BCE99
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## 7 5AB84043BCE99
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## 9 5AB84043BCE99
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                           control
## 10 5AB84043BCE99
                           control
                                                          10
                                                                      0
                                                                                   1
## # i 6,390 more rows
## # i 19 more variables: review_time_in_seconds <chr>, review_num <dbl>,
       deceptive <dbl>, positive <dbl>, review_text <chr>, review_id <int>,
## #
## #
       cluster <int>, predicted_label <dbl>, prior_human_payoff <dbl>,
## #
       prior_ai_payoff <dbl>, baseline_action <dbl>, baseline <lgl>,
## #
       baseline2_action <dbl>, baseline2 <lgl>, pos_human_payoff <dbl>,
       pos_ai_payoff <dbl>, benchmark_action <dbl>, benchmark <lgl>, ...
sample size = 40
n round = 1000
rational_results = data.frame()
for (i in 1:n_round) {
  rational_results = rational_data %>%
    group_by(review_num) %>%
    sample_n(sample_size) %>%
   ungroup() %>%
    summarise(baseline = mean(baseline),
              baseline2 = mean(baseline2),
              benchmark = mean(benchmark),
```

```
rational_reliance = mean(rational_reliance_level)) %>%
    rbind(rational_results)
}
rational_results = rational_results %>%
  cross_join(exp_data %>% group_by(experiment) %>% summarise())
rational results
## # A tibble: 5,000 x 5
      baseline baseline2 benchmark rational_reliance experiment
##
         <dbl>
                  <dbl>
                                              <dbl> <chr>
                            <dbl>
## 1
        0.878
                  0.556
                            0.942
                                              0.386 machine
        0.878
## 2
                  0.556
                            0.942
                                              0.386 machine_and_examples
## 3
        0.878
                 0.556
                            0.942
                                              0.386 machine_and_heatmap
        0.878
                  0.556
                            0.942
                                              0.386 machine_and_random_heatmap
## 4
## 5
        0.878
                 0.556
                            0.942
                                              0.386 machine_with_accuracy
                                              0.381 machine
## 6
        0.859
                 0.552
                            0.934
                                              0.381 machine_and_examples
## 7
        0.859
                 0.552
                            0.934
## 8
        0.859
                  0.552
                            0.934
                                              0.381 machine_and_heatmap
## 9
        0.859
                  0.552
                            0.934
                                              0.381 machine_and_random_heatmap
## 10
        0.859
                  0.552
                            0.934
                                              0.381 machine_with_accuracy
## # i 4,990 more rows
behavioral_data = exp_data %>%
 mutate(behavioral = scoring_rule(user_label, actual_label))
sample_size = 40
n_round = 1000
behavioral results = data.frame()
for (i in 1:n round) {
  behavioral_result = behavioral_data %>%
    group_by(review_num, experiment) %>%
    sample_n(sample_size) %>%
    group_by(experiment) %>%
    summarise(behavioral = mean(behavioral))
  reliance_level = behavioral_data %>%
    group_by(review_num, experiment) %>%
    sample_n(sample_size) %>%
    mutate(sample_id = row_number()) %>%
    group_by(experiment, sample_id) %>%
    summarise(reliance_level = mean((user_label == predicted_label) & (human_pred != user_label))) %>%
    group_by(experiment) %>%
    summarise(reliance_level = mean(reliance_level))
  misreliant = rational_data %>%
    group_by(review_num) %>%
    sample_n(sample_size) %>%
   mutate(sample_id = row_number()) %>%
    select(-experiment) %>%
    cross_join(reliance_level) %>%
    group_by(sample_id, experiment) %>%
    arrange(desc(pos_ai_payoff - pos_human_payoff), .by_group = TRUE) %>%
   mutate(sort id = row number()) %>%
   mutate(max_sort_id = max(sort_id)) %>%
    mutate(misreliant_action = ifelse(sort_id <= reliance_level * max_sort_id,</pre>
                                     predicted_label,
```

```
user_label)) %>%
    mutate(misreliant = scoring_rule(misreliant_action, actual_label)) %>%
    group_by(experiment) %>%
    summarise(misreliant = mean(misreliant), reliance_level = mean(reliance_level))
  behavioral_results = behavioral_result %>%
   left_join(misreliant, by = c("experiment")) %>%
   rbind(behavioral_results)
}
## `summarise()` has grouped output by 'experiment'. You can override using the
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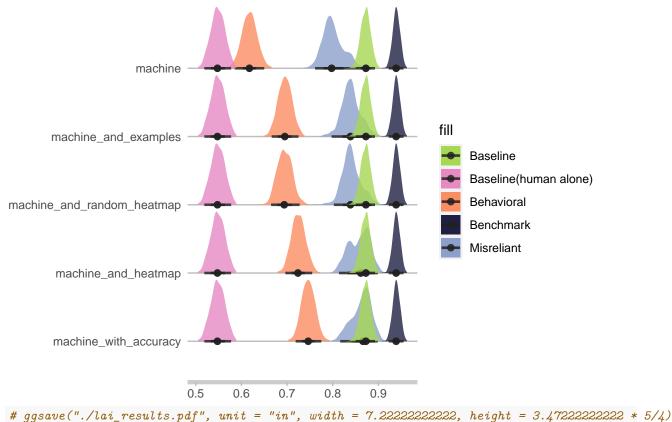
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behavioral_results
## # A tibble: 5,000 x 4
##
      experiment
                                behavioral misreliant reliance_level
                                     <dbl>
##
      <chr>
                                                <dbl>
                                                               <dbl>
## 1 machine
                                     0.615
                                                0.816
                                                               0.261
## 2 machine_and_examples
                                     0.694
                                                0.889
                                                               0.371
## 3 machine_and_heatmap
                                     0.702
                                                0.889
                                                               0.37
## 4 machine_and_random_heatmap
                                     0.679
                                                0.889
                                                               0.356
                                     0.775
## 5 machine_with_accuracy
                                                0.889
                                                               0.354
## 6 machine
                                     0.634
                                                               0.308
                                                0.831
## 7 machine and examples
                                     0.69
                                                0.869
                                                               0.351
## 8 machine_and_heatmap
                                     0.722
                                                0.869
                                                               0.356
## 9 machine_and_random_heatmap
                                    0.716
                                                0.869
                                                               0.365
## 10 machine_with_accuracy
                                                0.869
                                                               0.364
                                     0.748
## # i 4,990 more rows
results = rational_results %>%
  group by(experiment) %>%
 summarise(benchmark = mean(benchmark), baseline = mean(baseline))
results = results %>%
 left_join(behavioral_results %>%
              group_by(experiment) %>%
              summarise(behavioral = mean(behavioral),
                       misreliant = mean(misreliant)))
## Joining with `by = join_by(experiment)`
results = results %>%
  mutate(belief_loss = (misreliant - behavioral)/(benchmark - baseline),
        reliance_loss = (benchmark - misreliant)/(benchmark - baseline)) %>%
  arrange(reliance_loss)
results
## # A tibble: 5 x 7
     experiment benchmark baseline behavioral misreliant belief_loss reliance_loss
     <chr>>
                    <dbl>
                             <dbl> <dbl>
                                                   <dbl>
                                                               <dbl>
## 1 machine_wi~
                    0.939
                             0.872
                                        0.746
                                                   0.863
                                                                1.73
                                                                              1.13
## 2 machine an~
                    0.939
                           0.872
                                      0.725
                                                   0.858
                                                                1.97
                                                                              1.21
## 3 machine an~
                  0.939 0.872
                                      0.695
                                                   0.841
                                                                2.16
                                                                              1.46
                                                                              1.47
## 4 machine_an~
                   0.939
                             0.872
                                       0.695
                                                   0.840
                                                                2.14
## 5 machine
                    0.939
                             0.872
                                        0.618
                                                   0.801
                                                                2.72
                                                                              2.05
colors <- c("Baseline" = "#a6d854", "Baseline(human alone)" = "#e78ac3", "Benchmark" = "#1F2041", "Beha
ggplot() +
```

```
stat_slabinterval(data = behavioral_results, aes(y = experiment, x = behavioral, fill = "Behavioral")
stat_slabinterval(data = behavioral_results, aes(y = experiment, x = misreliant, fill = "Misreliant")
stat_slabinterval(data = rational_results, aes(y = experiment, x = baseline, fill = "Baseline"), alph
stat_slabinterval(data = rational_results, aes(y = experiment, x = baseline2, fill = "Baseline(human stat_slabinterval(data = rational_results, aes(y = experiment, x = benchmark, fill = "Benchmark"), alph
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stat_slabinterval(data = rational_results, aes(y = experiment, x = baseline, fill = "Baseline, fill = "
```



Using discretized signals to approximate

```
## `summarise()` has grouped output by 'user_label', 'predicted_label'. You can
## override using the `.groups` argument.
rational_data = human_predictions %>%
  ungroup() %>%
  mutate(prior_human_payoff = mean(scoring_rule(user_label), actual_label)),
         prior_ai_payoff = mean(scoring_rule(predicted_label, actual_label))) %>%
  mutate(baseline_action = ifelse(prior_human_payoff > prior_ai_payoff, user_label, predicted_label)) %
  mutate(baseline = scoring_rule(baseline_action, actual_label)) %>%
  mutate(baseline2_action = ifelse(prior_human_payoff <= prior_ai_payoff, user_label, predicted_label))</pre>
  mutate(baseline2 = scoring_rule(baseline2_action, actual_label)) %>%
  left_join(rational_action) %>%
  mutate(benchmark_action = ifelse(pos_human_payoff > pos_ai_payoff, user_label, predicted_label)) %>%
  mutate(benchmark = scoring_rule(benchmark_action, actual_label)) %>%
  mutate(rational_reliance_level = (benchmark_action == predicted_label) & (user_label != predicted_lab
## Joining with `by = join_by(user_label, cluster, predicted_label)`
sample_size = 40
n_round = 1000
rational_results = data.frame()
for (i in 1:n_round) {
  rational_results = rational_data %>%
    group_by(review_num) %>%
    sample_n(sample_size) %>%
   ungroup() %>%
    summarise(baseline = mean(baseline),
              baseline2 = mean(baseline2),
              benchmark = mean(benchmark),
              rational_reliance = mean(rational_reliance_level)) %>%
   rbind(rational_results)
}
rational_results = rational_results %>%
  cross_join(exp_data %>% group_by(experiment) %>% summarise())
behavioral_data = exp_data %>%
  mutate(behavioral = scoring_rule(user_label, actual_label))
sample_size = 40
n_{round} = 1000
behavioral_results = data.frame()
for (i in 1:n round) {
  behavioral_result = behavioral_data %>%
    group_by(review_num, experiment) %>%
    sample_n(sample_size) %>%
   group by(experiment) %>%
    summarise(behavioral = mean(behavioral))
  reliance_level = behavioral_data %>%
    group_by(review_num, experiment) %>%
    sample_n(sample_size) %>%
   mutate(sample_id = row_number()) %>%
    group_by(experiment, sample_id) %>%
    summarise(reliance_level = mean((user_label == predicted_label) & (human_pred != user_label))) %>%
    group_by(experiment) %>%
    summarise(reliance_level = mean(reliance_level))
```

```
misreliant = rational_data %>%
    group_by(review_num) %>%
    sample_n(sample_size) %>%
   mutate(sample id = row number()) %>%
    select(-experiment) %>%
    cross join(reliance level) %>%
    group_by(sample_id, experiment) %>%
   arrange(desc(pos_ai_payoff - pos_human_payoff), .by_group = TRUE) %>%
   mutate(sort_id = row_number()) %>%
   mutate(max_sort_id = max(sort_id)) %>%
   mutate(misreliant_action = ifelse(sort_id <= reliance_level * max_sort_id,</pre>
                                      predicted_label,
                                      user_label)) %>%
   mutate(misreliant = scoring_rule(misreliant_action, actual_label)) %>%
    group_by(experiment) %>%
    summarise(misreliant = mean(misreliant), reliance_level = mean(reliance_level))
  behavioral_results = behavioral_result %>%
   left_join(misreliant, by = c("experiment")) %>%
    rbind(behavioral_results)
}
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results = rational_results %>%
   group by(experiment) %>%
   summarise(benchmark = mean(benchmark), baseline = mean(baseline))
results = results %>%
   left_join(behavioral_results %>%
                        group_by(experiment) %>%
                        summarise(behavioral = mean(behavioral),
                                          misreliant = mean(misreliant)))
## Joining with `by = join_by(experiment)`
results = results %>%
   mutate(belief_loss = (misreliant - behavioral)/(benchmark - baseline),
                reliance_loss = (benchmark - misreliant)/(benchmark - baseline)) %>%
   arrange(reliance_loss)
ggplot() +
   stat_slabinterval(data = behavioral_results, aes(y = experiment, x = behavioral, fill = "Behavioral")
   stat_slabinterval(data = behavioral_results, aes(y = experiment, x = misreliant, fill = "Misreliant")
   stat_slabinterval(data = rational_results, aes(y = experiment, x = baseline, fill = "Baseline"), alph
   stat_slabinterval(data = rational_results, aes(y = experiment, x = baseline2, fill = "Baseline(human = rational_results)" | Baseline(human = rational_results) 
   stat_slabinterval(data = rational_results, aes(y = experiment, x = benchmark, fill = "Benchmark"), al
   labs(x = "", y = "", color = "Quantiy") +
   ylim((results)$experiment) +
   theme(panel.grid.major.x = element_blank(),
              panel.grid.minor.x = element_blank(),
              panel.grid.major = element line(colour = "grey"),
              axis.line.x = element_line(linewidth = 1.5, colour = "grey80"),
              panel.background = element_rect(fill = "white", color = "white"),
              axis.ticks.y = element_blank(),
              axis.ticks.x = element_line(colour = "grey")) +
   scale_fill_manual(values = colors)
```

