Plots for NN

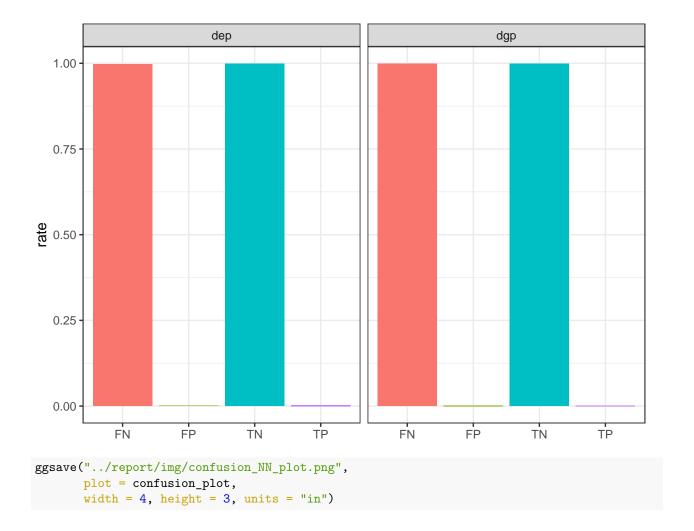
Zexuan Zhao

2022-12-15

Confusion matrix

```
##
     <chr> <dbl> <chr>
          0.00183 dgp
## 1 TP
## 2 FN
          0.998
                   dgp
## 3 FP
          0.00166 dgp
## 4 TN
          0.998
                   dgp
## 5 TP
          0.00327 dep
## 6 FN
          0.997
                   dep
## 7 FP
           0.00125 dep
## 8 TN
           0.999
                   dep
```

```
confusion_plot <- confusion_tb %>%
  ggplot(aes(x = type, y = rate, fill = type)) +
    geom_bar(stat = "identity") +
  facet_grid(. ~ p) +
  theme_bw() +
  xlab(NULL) +
  theme(legend.position = "none")
confusion_plot
```

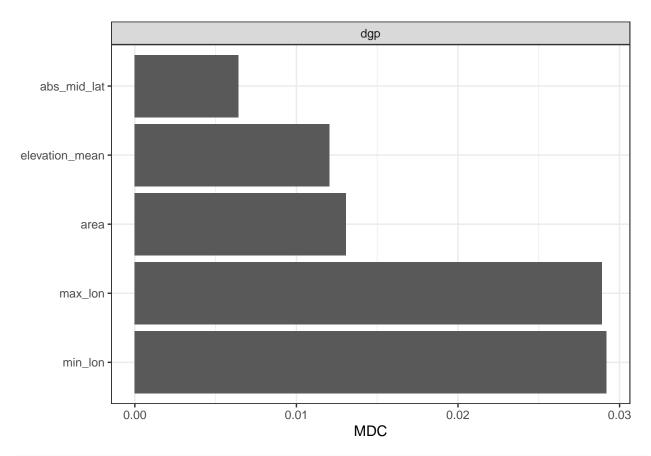


Importance

coord_flip()+
xlab(NULL) +

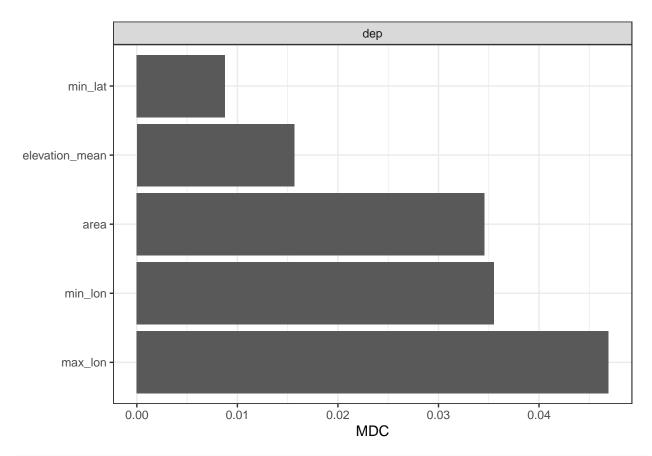
importance_dgp_plot

theme(legend.position = "none")



```
ggsave("../report/img/importance_dgp_plot.png",
    plot = importance_dgp_plot,
    width = 4, height = 3, units = "in")
```

```
importance_dep_plot <- importance_dep %>%
    ggplot(aes(x = reorder(var, -MDC), y = MDC)) +
        geom_bar(stat = "identity") +
    facet_grid(. ~ p) +
    theme_bw() +
    coord_flip()+
    xlab(NULL) +
    theme(legend.position = "none")
importance_dep_plot
```



```
ggsave("../report/img/importance_dep_plot.png",
    plot = importance_dep_plot,
    width = 4, height = 3, units = "in")
```