Project

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Interval world_data

```r
interval_data = read.csv("FINAL DATA.csv")

#interval_data
```

Create world_data

```r
#Read in world_data  (world_data  is ordered)
world_data   = read.csv("FINAL WORLD DATA.csv")

#world_data
```

Create model for improvement over time

```r
interval_data = interval_data   %>%
  mutate(DayNum = as.numeric(gsub('Day_', '', Day)))

world_data = world_data  %>%
  mutate(DayNum = as.numeric(gsub('Day_', '', Day)))

# Calculate success rate by day and interval
daily_interval_success = interval_data   %>%
  group_by(DayNum, Interval) %>%
  summarise(
    success_rate = mean(Success),
    n_attempts = n(),
    .groups = 'drop'
  )

# Calculate overall success rate by day (across all intervals)
daily_overall_success = interval_data   %>%
  group_by(DayNum) %>%
  summarise(
    overall_success_rate = mean(Success),
```

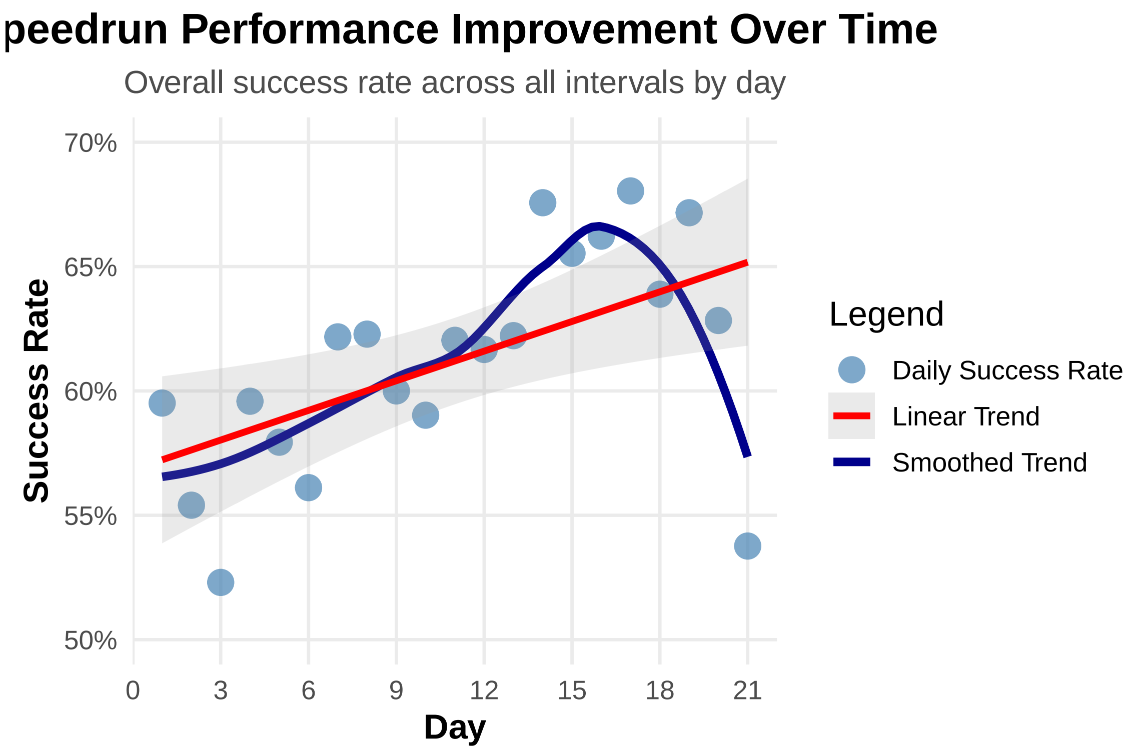
```r
    total_attempts = n(),
    .groups = 'drop'
  )

# Calculate how far Nifski get on average each day
daily_progression = interval_data   %>%
  group_by(DayNum, Run) %>%
  summarise(
    max_interval_reached = max(Interval[Success == 1]),
    .groups = 'drop'
  ) %>%
  group_by(DayNum) %>%
  summarise(
    avg_max_interval = mean(max_interval_reached),
    median_max_interval = median(max_interval_reached),
    .groups = 'drop'
  )

#interval_data
```

Graphs

```r
# Graph 1: Overall Success Rate Over Time (Enhanced with Legend)
ggplot(daily_overall_success, aes(x = DayNum, y = overall_success_rate)) +
  geom_point(aes(color = "Daily Success Rate"), size = 4, alpha = 0.7) +
  geom_smooth(aes(color = "Smoothed Trend"),
              method = "loess", se = FALSE, linewidth = 1.5) +
  geom_smooth(aes(color = "Linear Trend"),
              method = "lm", se = TRUE, linewidth = 1.2, alpha = 0.2) +
  scale_color_manual(name = "Legend",
                     values = c("Daily Success Rate" = "steelblue",
                                "Smoothed Trend" = "darkblue",
                                "Linear Trend" = "red")) +
  scale_y_continuous(labels = scales::percent_format(accuracy = 1),
                     limits = c(0.50, 0.70)) +
  scale_x_continuous(breaks = seq(0, 21, by = 3)) +
  labs(title = "Speedrun Performance Improvement Over Time",
       subtitle = "Overall success rate across all intervals by day",
       x = "Day",
       y = "Success Rate") +
  theme_minimal(base_size = 13) +
  theme(plot.title = element_text(hjust = 0.5, face = "bold", size = 16),
        plot.subtitle = element_text(hjust = 0.5, size = 12, color = "gray30"),
        panel.grid.minor = element_blank(),
        axis.title = element_text(face = "bold"),
        legend.position = "right")
```



Models

```r
#Now that we've shown that there is improvement
# Model improvement over time on interval completion
cloglog_time = glm(Success ~ DayNum + factor(Interval),
                   data = interval_data,
                   family = binomial(link = "cloglog"))
summary(cloglog_time)
```

```
##
## Call:
## glm(formula = Success ~ DayNum + factor(Interval), family = binomial(link = "cloglog"),
##     data = interval_data)
##
## Coefficients:
##                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)        -0.146471   0.047604  -3.077 0.002092 **
## DayNum              0.015065   0.003639   4.139 3.48e-05 ***
## factor(Interval)2   0.292025   0.049087   5.949 2.70e-09 ***
## factor(Interval)3   0.420505   0.053783   7.819 5.34e-15 ***
## factor(Interval)4 -1.774111   0.104429 -16.989  < 2e-16 ***
## factor(Interval)5 -0.592292   0.156448  -3.786 0.000153 ***
## factor(Interval)6 -0.812984   0.253766  -3.204 0.001357 **
## factor(Interval)7  0.693954   0.320525   2.165 0.030384 *
## factor(Interval)8 -1.130315   0.502197  -2.251 0.024402 *
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 5997.8  on 4486  degrees of freedom
## Residual deviance: 5184.3  on 4478  degrees of freedom
## AIC: 5202.3
##
## Number of Fisher Scoring iterations: 5
```

```r
cloglog_full = glm(Success ~ DayNum * factor(Interval),
                   data = interval_data,
                   family = binomial(link = "cloglog"))

anova(cloglog_time, cloglog_full, test = "Chisq")
```

```
## Analysis of Deviance Table
##
## Model 1: Success ~ DayNum + factor(Interval)
## Model 2: Success ~ DayNum * factor(Interval)
##   Resid. Df Resid. Dev Df Deviance  Pr(>Chi)
## 1      4478     5184.3
## 2      4471     5155.3  7   28.948 0.0001479 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
#saturated model is better so do stepwise to find best AIC
```

Stepwise

```r
# Null model (intercept only)
cloglog_null = glm(Success ~ 1,
                   data = interval_data,
                   family = binomial(link = "cloglog"))

# Forward stepwise selection
forward_model = step(cloglog_null,
                     scope = list(lower = cloglog_null, upper = cloglog_full),
                     direction = "forward",
                     trace = 0)

# Backward stepwise selection
backward_model = step(cloglog_full,
                      direction = "backward",
                      trace = 0)
```

```r
# Both directions stepwise selection
both_model = step(cloglog_null,
                  scope = list(lower = cloglog_null, upper = cloglog_full),
                  direction = "both",
                  trace = 0)

best_model = forward_model

summary(best_model)
```

```
##
## Call:
## glm(formula = Success ~ factor(Interval) + DayNum + factor(Interval):DayNum,
##     family = binomial(link = "cloglog"), data = interval_data)
##
## Coefficients:
##                          Estimate Std. Error z value Pr(>|z|)
## (Intercept)             -0.179868   0.063521  -2.832 0.004631 **
## factor(Interval)2        0.192174   0.100243   1.917 0.055227 .
## factor(Interval)3        0.774361   0.112855   6.862 6.81e-12 ***
## factor(Interval)4       -2.157366   0.248769  -8.672  < 2e-16 ***
## factor(Interval)5       -0.179802   0.347896  -0.517 0.605277
## factor(Interval)6       -1.444410   0.714854  -2.021 0.043325 *
## factor(Interval)7        0.355259   1.093958   0.325 0.745373
## factor(Interval)8       -3.581525   2.397524  -1.494 0.135217
## DayNum                   0.018462   0.005589   3.303 0.000956 ***
## factor(Interval)2:DayNum  0.009921   0.008715   1.138 0.254948
## factor(Interval)3:DayNum -0.033263   0.009685  -3.435 0.000593 ***
## factor(Interval)4:DayNum  0.034295   0.019701   1.741 0.081721 .
## factor(Interval)5:DayNum -0.035813   0.027848  -1.286 0.198439
## factor(Interval)6:DayNum  0.052490   0.053670   0.978 0.328073
## factor(Interval)7:DayNum  0.026903   0.084506   0.318 0.750214
## factor(Interval)8:DayNum  0.174344   0.157435   1.107 0.268118
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 5997.8  on 4486  degrees of freedom
## Residual deviance: 5155.3  on 4471  degrees of freedom
## AIC: 5187.3
##
## Number of Fisher Scoring iterations: 6
```

```r
#Best model is Success ~ factor(Interval) + DayNum + factor(Inveral):DayNum
```

Find if model is a good fit

```r
# Analyze best_model fit


# 3. Pearson Chi-Square Test
pearson_resid = residuals(best_model, type = "pearson")
pearson_chisq = sum(pearson_resid^2)
pearson_pval = 1 - pchisq(pearson_chisq, best_model$df.residual)
cat("\nPearson Chi-Square Test:\n")
```

```
##
## Pearson Chi-Square Test:
```

```r
cat("Chi-Square:", pearson_chisq, "\n")
```

```
## Chi-Square: 4491.95
```

```r
cat("P-value:", pearson_pval, "\n")
```

```
## P-value: 0.409724
```

```r
# 4. Hosmer-Lemeshow Test
library(ResourceSelection)
hl_test = hoslem.test(interval_data$Success, fitted(best_model), g = 10)
print(hl_test)
```

```
##
##  Hosmer and Lemeshow goodness of fit (GOF) test
##
## data:  interval_data$Success, fitted(best_model)
## X-squared = 17.861, df = 8, p-value = 0.02229
```

```r
cat("Hosmer-Lemeshow: p >0.05 indicates good fit\n")
```

```
## Hosmer-Lemeshow: p >0.05 indicates good fit
```

```r
# 5. McFadden's Pseudo R-squared
null_dev = best_model$null.deviance
resid_dev = best_model$deviance
pseudo_r2 = 1 - (resid_dev / null_dev)
cat("\nMcFadden's Pseudo R-squared:", pseudo_r2, "\n")
```

```
##
## McFadden's Pseudo R-squared: 0.1404641
```

```r
cat("Interpretation: 0.2-0.4 = excellent fit\n")
```

```
## Interpretation: 0.2-0.4 = excellent fit
```

```r
# 6. Calculate VIF for multicollinearity (if applicable)
cat("\nVariance Inflation Factors:\n")
```

```
##
## Variance Inflation Factors:
```

```r
vif_values = vif(best_model)
print(vif_values)
```

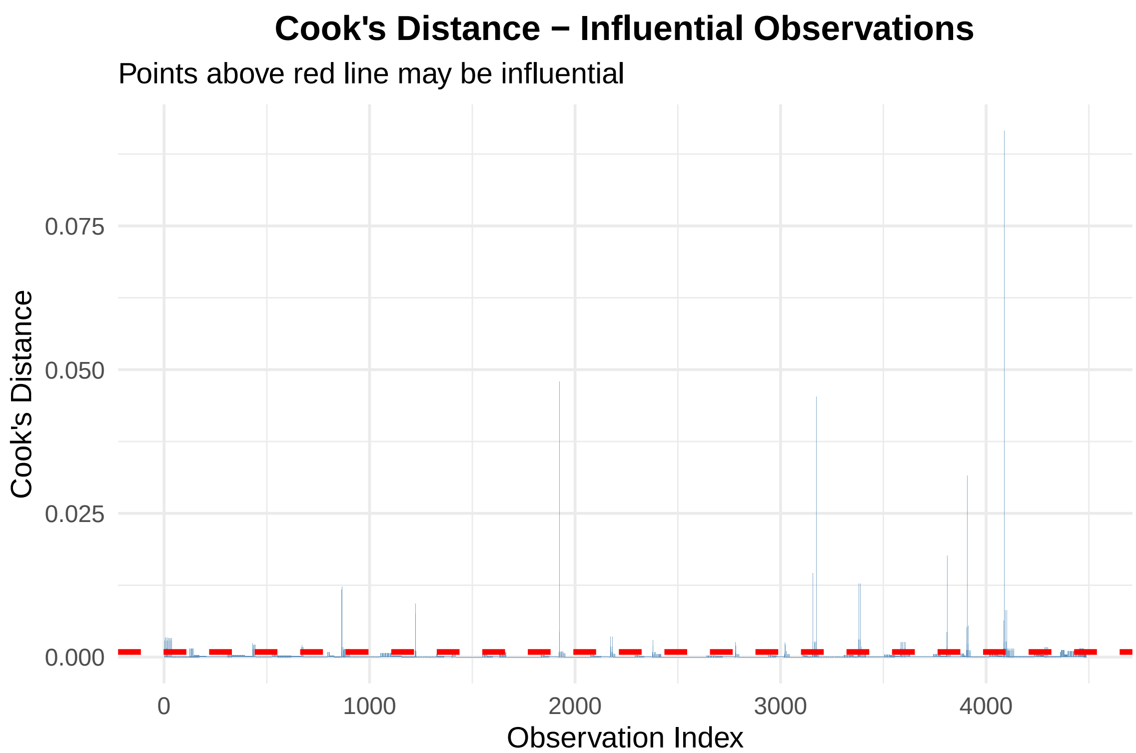
```
##                                  GVIF Df GVIF^(1/(2*Df))
## factor(Interval)         1.050201e+06  7        2.692098
## DayNum                   2.362440e+00  1        1.537023
## factor(Interval):DayNum 1.427819e+06  7        2.751817
```

```r
cat("VIF < 10 indicates no serious multicollinearity\n")
```

```
## VIF < 10 indicates no serious multicollinearity
```

```r
# 8. Influential Points
interval_data$cooks_d = cooks.distance(best_model)

# Graph 5: Cook's Distance
ggplot(interval_data, aes(x = 1:nrow(interval_data), y = cooks_d)) +
  geom_bar(stat = "identity", fill = "steelblue", alpha = 0.7) +
  geom_hline(yintercept = 4/nrow(interval_data), color = "red",
             linetype = "dashed", linewidth = 1) +
  labs(title = "Cook's Distance - Influential Observations",
       subtitle = "Points above red line may be influential",
       x = "Observation Index",
       y = "Cook's Distance") +
  theme_minimal() +
  theme(plot.title = element_text(hjust = 0.5, face = "bold"))
```




```r
# 9. Summary Statistics
cat("\n=== MODEL FIT SUMMARY ===\n")
```

```
##
## === MODEL FIT SUMMARY ===
```

```r
cat("AIC:", AIC(best_model), "\n")
```

```
## AIC: 5187.337
```

```r
cat("BIC:", BIC(best_model), "\n")
```

```
## BIC: 5289.88
```

```r
cat("Log-Likelihood:", logLik(best_model), "\n")
```

```
## Log-Likelihood: -2577.669
```

```r
cat("Pseudo R-squared:", pseudo_r2, "\n")
```

```
## Pseudo R-squared: 0.1404641
```

Model to predict probability of each individual run

```r
# Initialize empty list
interval_models = list()

# Map intervals to their corresponding world record columns
interval_mapping = c(
  "1" = "W1_1",
  "2" = "W1_2",
  "3" = "W4_1",
  "4" = "W4_2",
  "5" = "W8_1",
  "6" = "W8_2",
  "7" = "W8_3",
  "8" = "W8_4"
)

# Build models for intervals 1-7 (we're predicting interval 8/W8_4)
for (interval_num in 1:7) {

  cat("\n=== Processing Interval", interval_num, "(", interval_mapping[as.character(interval_nu

  # Filter data for this specific interval
  interval_subset = interval_data %>%
    filter(Interval == interval_num)

  cat("Number of observations:", nrow(interval_subset), "\n")
  cat("Success rate:", mean(interval_subset$Success), "\n")

  # Build cloglog model for this interval
  model = glm(Success ~ DayNum,
              data = interval_subset,
              family = binomial(link = "cloglog"))

  # Store the model with the world column name as key
  world_col = interval_mapping[as.character(interval_num)]
  interval_models[[world_col]] = model

  cat("Model successfully fit!\n")
  print(summary(model))
}
```

```
##
## === Processing Interval 1 ( W1_1 ) ===
## Number of observations: 1750
## Success rate: 0.6314286
## Model successfully fit!
##
## Call:
```

```
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.179868   0.063521  -2.832 0.004631 **
## DayNum       0.018462   0.005589   3.303 0.000956 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 2303.7  on 1749  degrees of freedom
## Residual deviance: 2293.0  on 1748  degrees of freedom
## AIC: 2297
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 2 ( W1_2 ) ===
## Number of observations: 1105
## Success rate: 0.7375566
## Model successfully fit!
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) 0.012303   0.077548   0.159    0.874
## DayNum      0.028384   0.006686   4.245 2.19e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 1272.1  on 1104  degrees of freedom
## Residual deviance: 1252.6  on 1103  degrees of freedom
## AIC: 1256.6
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 3 ( W4_1 ) ===
## Number of observations: 815
## Success rate: 0.7877301
## Model successfully fit!
```

```
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  0.594490   0.093281   6.373 1.85e-10 ***
## DayNum      -0.014800   0.007909  -1.871   0.0613 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 842.63  on 814  degrees of freedom
## Residual deviance: 838.79  on 813  degrees of freedom
## AIC: 842.79
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 4 ( W4_2 ) ===
## Number of observations: 642
## Success rate: 0.1573209
## Model successfully fit!
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) -2.33723    0.24052  -9.717  < 2e-16 ***
## DayNum       0.05276    0.01889   2.793  0.00523 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 558.80  on 641  degrees of freedom
## Residual deviance: 550.98  on 640  degrees of freedom
## AIC: 554.98
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 5 ( W8_1 ) ===
## Number of observations: 101
```

```
## Success rate: 0.4356436
## Model successfully fit!
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.35967    0.34205  -1.051    0.293
## DayNum      -0.01735    0.02728  -0.636    0.525
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 138.34  on 100  degrees of freedom
## Residual deviance: 137.91  on  99  degrees of freedom
## AIC: 141.91
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 6 ( W8_2 ) ===
## Number of observations: 44
## Success rate: 0.3636364
## Model successfully fit!
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) -1.62430    0.71199  -2.281   0.0225 *
## DayNum       0.07095    0.05338   1.329   0.1837
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 57.682  on 43  degrees of freedom
## Residual deviance: 55.666  on 42  degrees of freedom
## AIC: 59.666
##
## Number of Fisher Scoring iterations: 5
##
##
## === Processing Interval 7 ( W8_3 ) ===
## Number of observations: 16
```

```
## Success rate: 0.875
## Model successfully fit!
##
## Call:
## glm(formula = Success ~ DayNum, family = binomial(link = "cloglog"),
##     data = interval_subset)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept)  0.17539    1.09211   0.161    0.872
## DayNum       0.04537    0.08432   0.538    0.591
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 12.057  on 15  degrees of freedom
## Residual deviance: 11.817  on 14  degrees of freedom
## AIC: 15.817
##
## Number of Fisher Scoring iterations: 6
```

```r
# Now create predictions for each run in world_data
world_data = world_data %>%
  mutate(
    pred_W1_1 = predict(interval_models[["W1_1"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W1_2 = predict(interval_models[["W1_2"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W4_1 = predict(interval_models[["W4_1"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W4_2 = predict(interval_models[["W4_2"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W8_1 = predict(interval_models[["W8_1"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W8_2 = predict(interval_models[["W8_2"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response"),
    pred_W8_3 = predict(interval_models[["W8_3"]],
                        newdata = data.frame(DayNum = DayNum),
                        type = "response")
  )

# Calculate overall WR probability as product of all interval probabilities
world_data = world_data %>%
```

```r
  mutate(
    pred_WR_prob = pred_W1_1 * pred_W1_2 * pred_W4_1 * pred_W4_2 *
                   pred_W8_1 * pred_W8_2 * pred_W8_3
  )

# Now use this predicted WR probability in your final model
final_model = logistf(W8_4 ~ pred_WR_prob, data = world_data)

final_model_cloglog = glm(W8_4 ~ pred_WR_prob,
                   data = world_data,
                   family = binomial(link = "cloglog"))

summary(final_model)
```

```
## logistf(formula = W8_4 ~ pred_WR_prob, data = world_data)
##
## Model fitted by Penalized ML
## Coefficients:
##                    coef   se(coef) lower 0.95 upper 0.95   Chisq          p
## (Intercept)   -7.057689  0.9448062  -9.390065   -5.43952     Inf 0.00000000
## pred_WR_prob 115.038453 63.5518139 -20.260603  250.09034 2.84904 0.09142852
##              method
## (Intercept)       2
## pred_WR_prob      2
##
## Method: 1-Wald, 2-Profile penalized log-likelihood, 3-None
##
## Likelihood ratio test=2.84904 on 1 df, p=0.09142852, n=1750
## Wald test = 156.609 on 1 df, p = 0
```

```r
summary(final_model_cloglog)
```

```
##
## Call:
## glm(formula = W8_4 ~ pred_WR_prob, family = binomial(link = "cloglog"),
##     data = world_data)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -7.278      1.054  -6.902 5.12e-12 ***
## pred_WR_prob  114.678     70.870   1.618    0.106
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
```

```
##     Null deviance: 56.639  on 1749  degrees of freedom
## Residual deviance: 54.195  on 1748  degrees of freedom
## AIC: 58.195
##
## Number of Fisher Scoring iterations: 9
```

```r
#should make final pred_WR remain deterministic based on predicted probabilities, because pred_

# Check the predictions
world_data %>%
  dplyr::select(DayNum, starts_with("pred_"), W8_4)
```

```
##      DayNum pred_W1_1 pred_W1_2 pred_W4_1  pred_W4_2 pred_W8_1 pred_W8_2
## 1         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 2         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 3         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 4         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 5         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 6         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 7         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 8         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
## 9         1 0.5729895 0.6470842 0.8322841 0.09681451 0.4963658 0.1906619
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## 1746     21 0.7080041 0.8407708 0.7349957 0.25359596 0.3841762 0.5828691
## 1747     21 0.7080041 0.8407708 0.7349957 0.25359596 0.3841762 0.5828691
## 1748     21 0.7080041 0.8407708 0.7349957 0.25359596 0.3841762 0.5828691
## 1749     21 0.7080041 0.8407708 0.7349957 0.25359596 0.3841762 0.5828691
## 1750     21 0.7080041 0.8407708 0.7349957 0.25359596 0.3841762 0.5828691
##      pred_W8_3 pred_WR_prob W8_4
## 1    0.7126400  0.002014909    0
## 2    0.7126400  0.002014909    0
## 3    0.7126400  0.002014909    0
## 4    0.7126400  0.002014909    0
## 5    0.7126400  0.002014909    0
## 6    0.7126400  0.002014909    0
## 7    0.7126400  0.002014909    0
## 8    0.7126400  0.002014909    0
## 9    0.7126400  0.002014909    0
## 10   0.7126400  0.002014909    0
## 11   0.7126400  0.002014909    0
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## 16   0.7126400  0.002014909    0
## 17   0.7126400  0.002014909    0
## 18   0.7126400  0.002014909    0
## 19   0.7126400  0.002014909    0
## 20   0.7126400  0.002014909    0
## 21   0.7126400  0.002014909    0
## 22   0.7126400  0.002014909    0
## 23   0.7126400  0.002014909    0
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## 25   0.7126400  0.002014909    0
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## 27   0.7126400  0.002014909    0
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## 1703 0.9477977  0.021526693    0
## 1704 0.9477977  0.021526693    0
## 1705 0.9477977  0.021526693    0
## 1706 0.9477977  0.021526693    0
## 1707 0.9477977  0.021526693    0
## 1708 0.9544826  0.023714285    0
## 1709 0.9544826  0.023714285    0
## 1710 0.9544826  0.023714285    0
## 1711 0.9544826  0.023714285    0
## 1712 0.9544826  0.023714285    0
## 1713 0.9544826  0.023714285    0
## 1714 0.9544826  0.023714285    0
## 1715 0.9544826  0.023714285    0
## 1716 0.9544826  0.023714285    0
## 1717 0.9544826  0.023714285    0
## 1718 0.9544826  0.023714285    0
## 1719 0.9544826  0.023714285    0
## 1720 0.9544826  0.023714285    0
## 1721 0.9544826  0.023714285    0
## 1722 0.9544826  0.023714285    0
## 1723 0.9544826  0.023714285    0
## 1724 0.9544826  0.023714285    0
## 1725 0.9544826  0.023714285    0
## 1726 0.9544826  0.023714285    0
## 1727 0.9544826  0.023714285    0
## 1728 0.9544826  0.023714285    0
## 1729 0.9544826  0.023714285    0
## 1730 0.9544826  0.023714285    0
## 1731 0.9544826  0.023714285    0
## 1732 0.9544826  0.023714285    0
## 1733 0.9544826  0.023714285    0
## 1734 0.9544826  0.023714285    0
## 1735 0.9544826  0.023714285    0
## 1736 0.9544826  0.023714285    0
## 1737 0.9544826  0.023714285    0
## 1738 0.9544826  0.023714285    0
## 1739 0.9544826  0.023714285    0
```
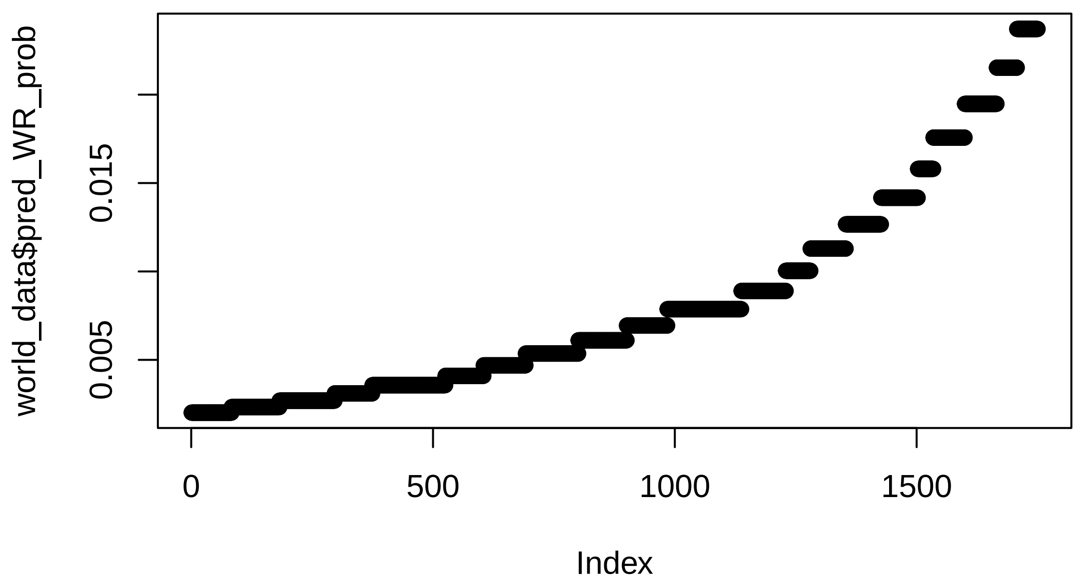
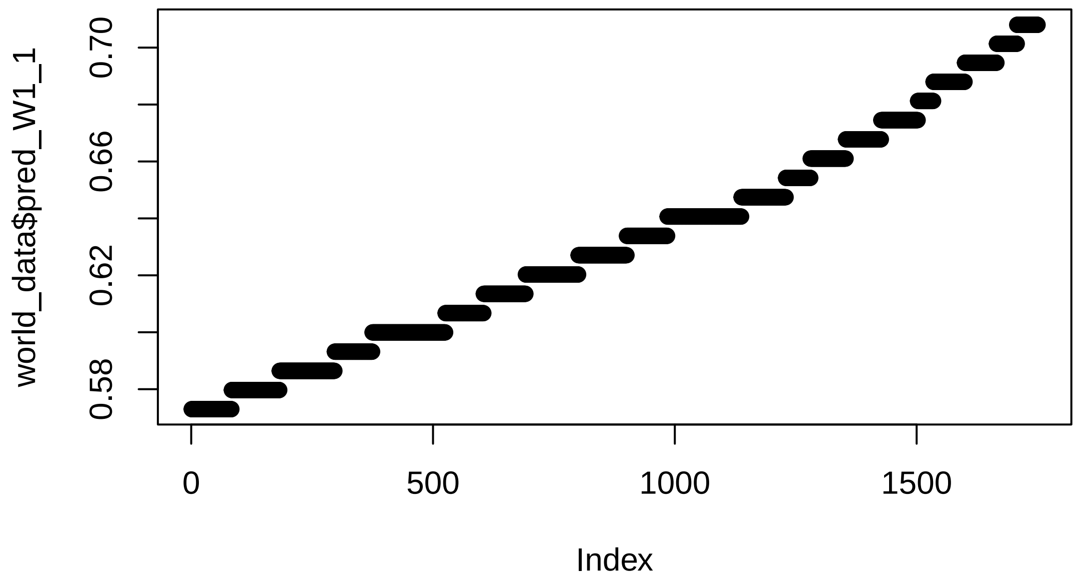

```
## 1740 0.9544826  0.023714285     0
## 1741 0.9544826  0.023714285     0
## 1742 0.9544826  0.023714285     0
## 1743 0.9544826  0.023714285     0
## 1744 0.9544826  0.023714285     0
## 1745 0.9544826  0.023714285     0
## 1746 0.9544826  0.023714285     0
## 1747 0.9544826  0.023714285     0
## 1748 0.9544826  0.023714285     0
## 1749 0.9544826  0.023714285     0
## 1750 0.9544826  0.023714285     0
```

Analyze Results

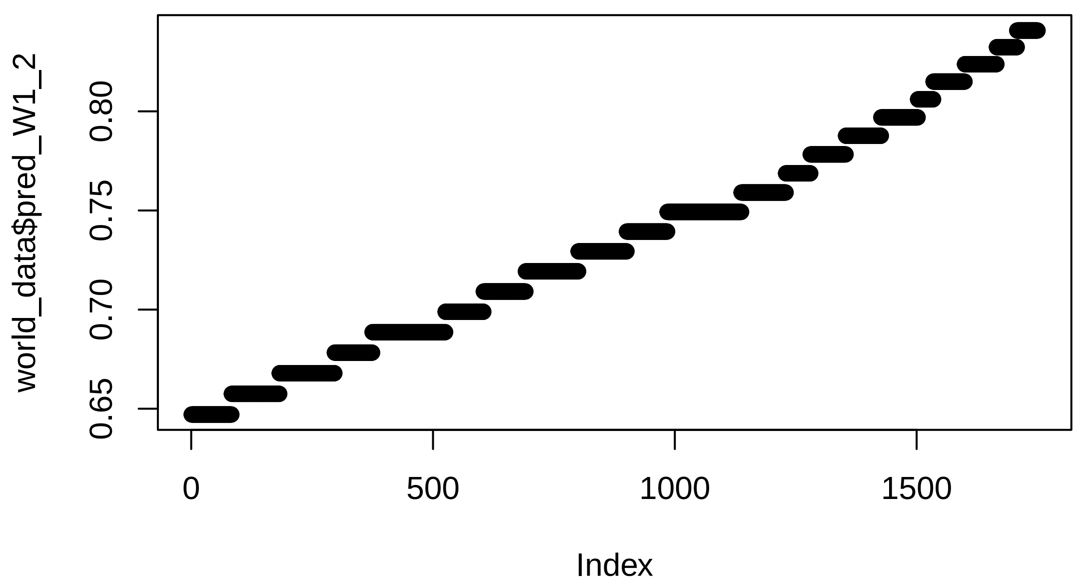
```r
plot(world_data$pred_WR_prob)
```



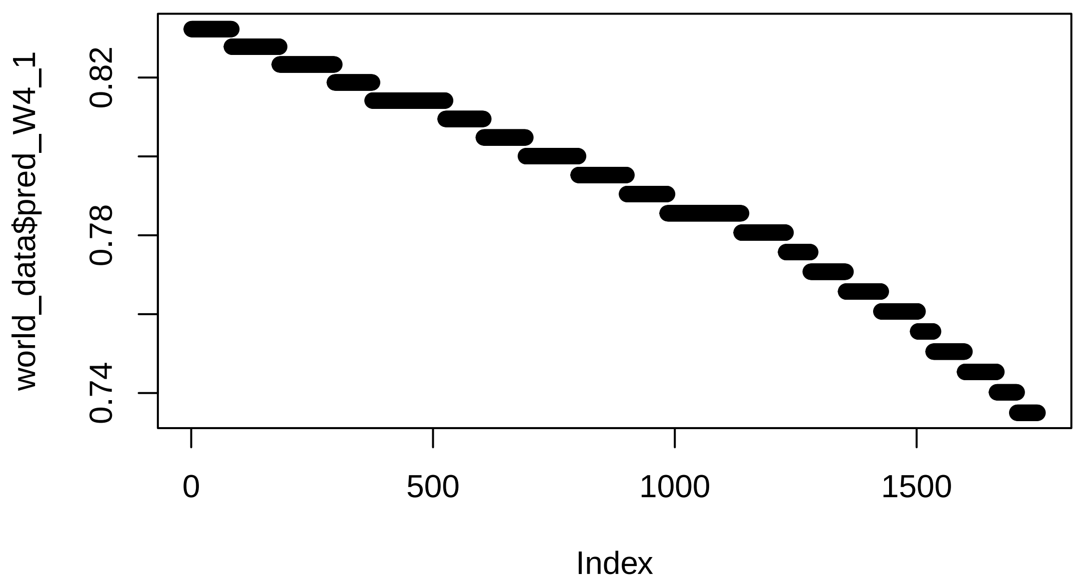

```r
plot(world_data$pred_W1_1)
```



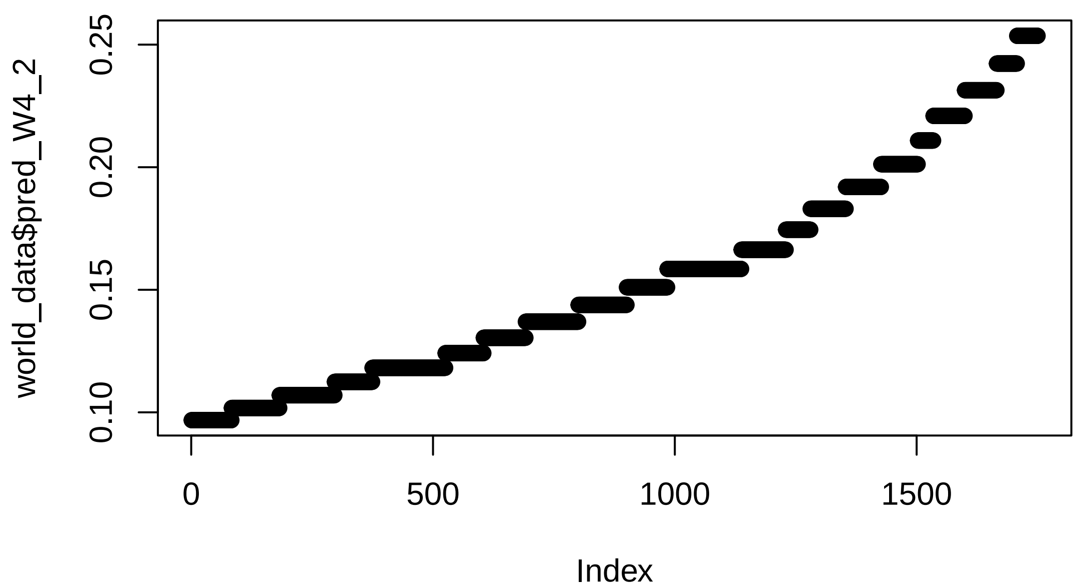

```r
plot(world_data$pred_W1_2)
```



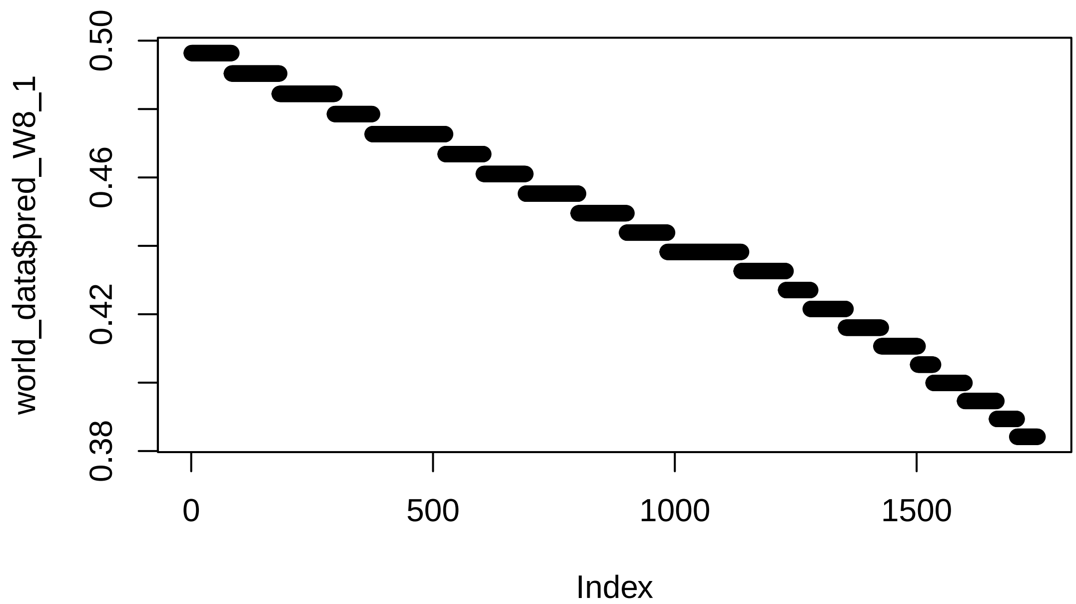
```
plot(world_data$pred_W4_1)
```



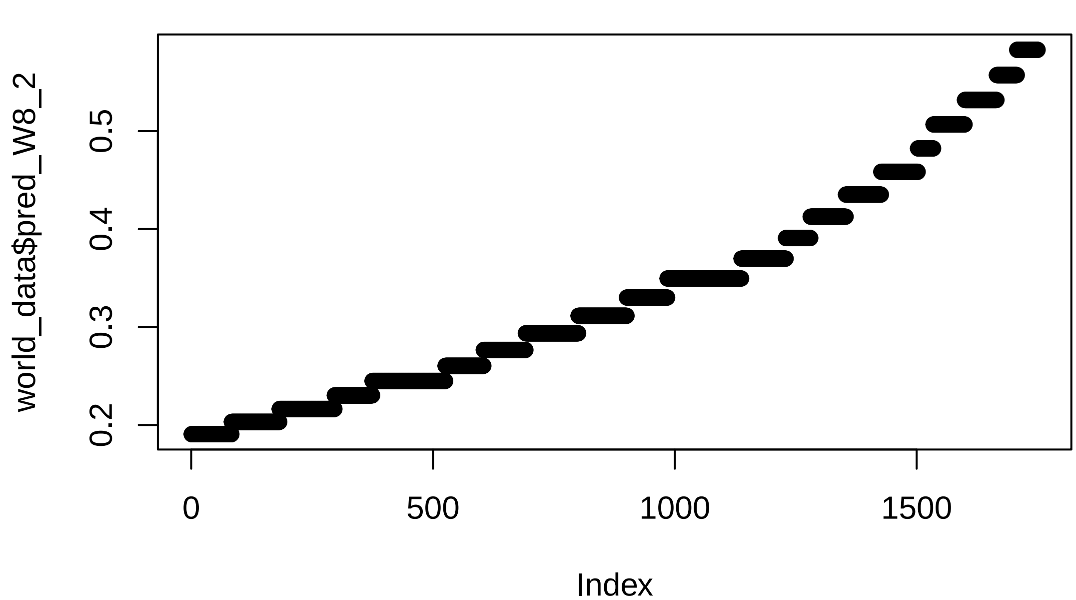

```
plot(world_data$pred_W4_2)
```



```r
plot(world_data$pred_W8_1)
```




```r
plot(world_data$pred_W8_2)
```



```r
plot(world_data$pred_W8_3)
```