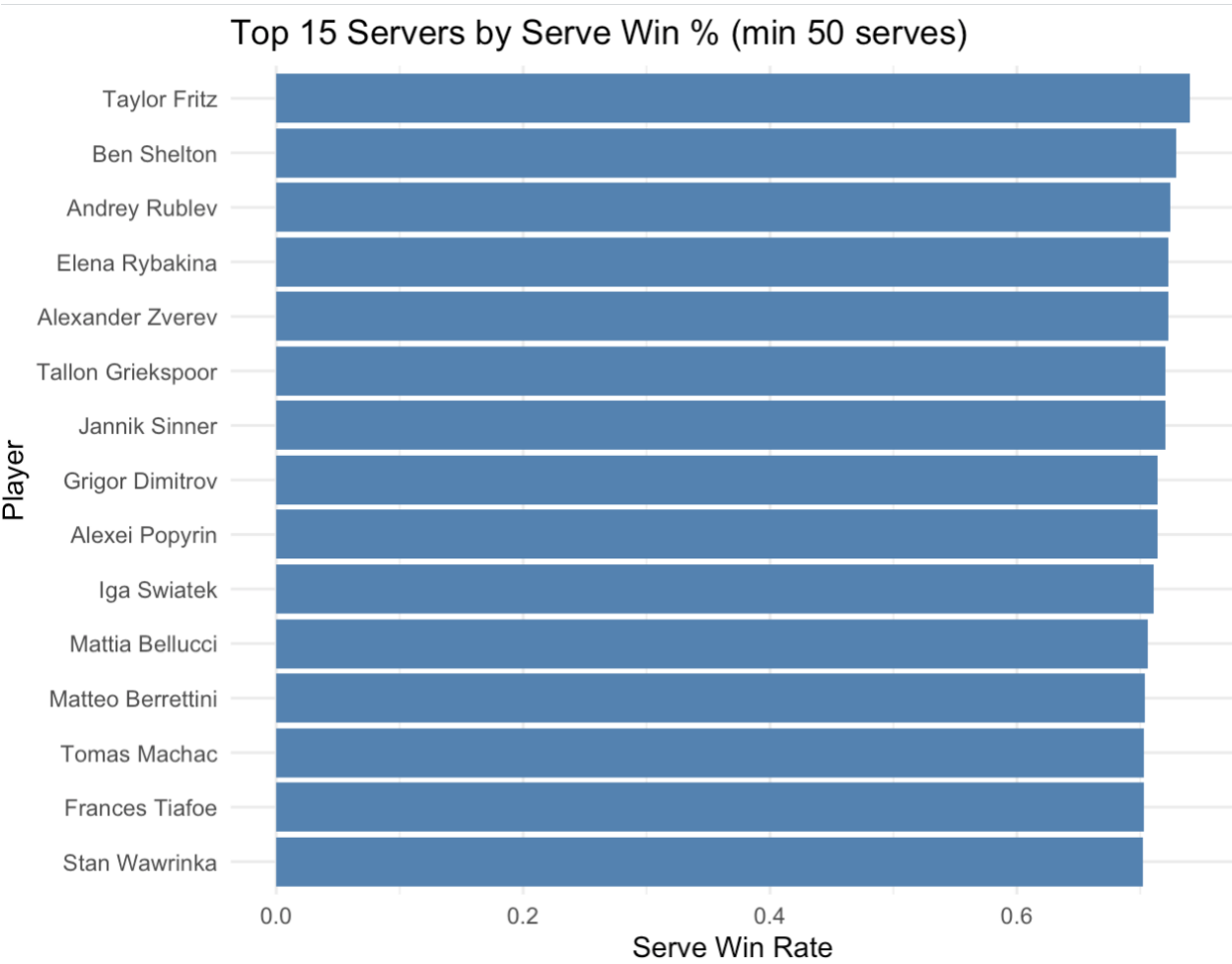
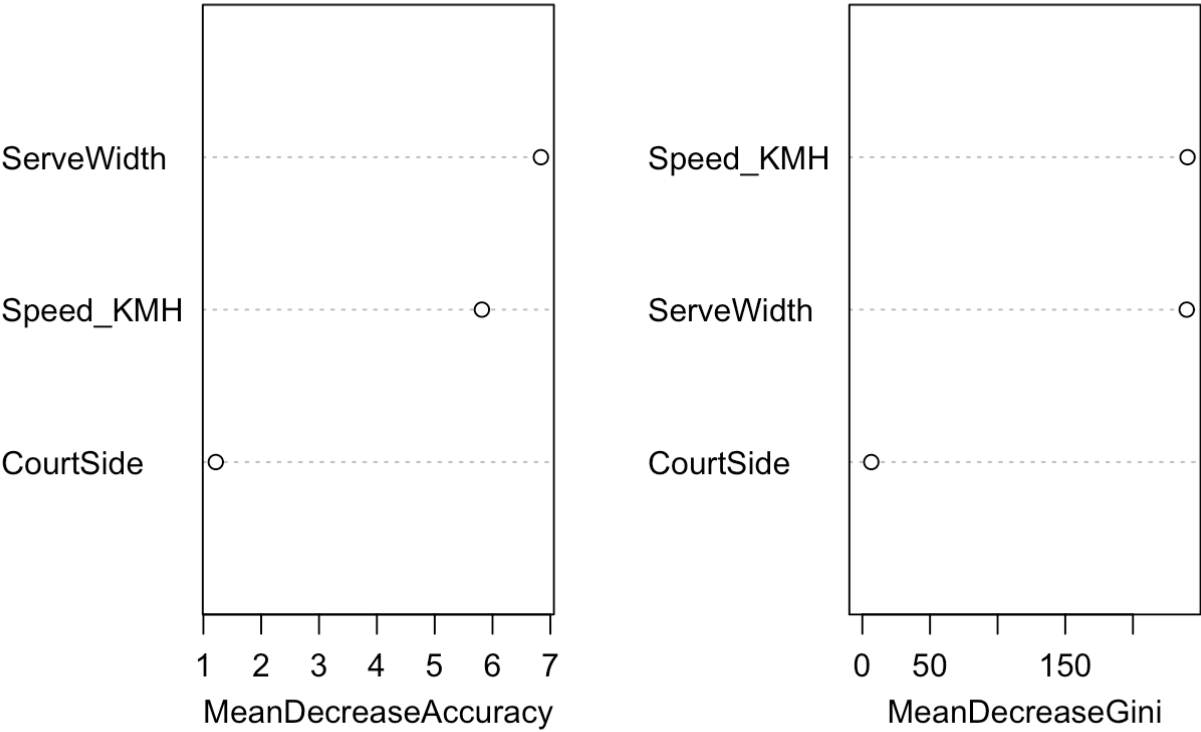


Charts, Tables, and Visuals US Open 2024 Serve Analysis



	ServerName	TotalServes	ServeWins	ServeWinRate
1	Taylor Fritz	635	470	0.740
2	Ben Shelton	299	218	0.729
3	Andrey Rublev	431	312	0.724
4	Alexander Zverev	462	334	0.723
5	Elena Rybakina	65	47	0.723
6	Jannik Sinner	582	419	0.720
7	Tallon Griekspoor	150	108	0.720
8	Alexei Popyrin	357	255	0.714
9	Grigor Dimitrov	476	340	0.714
10	Iga Swiatek	246	175	0.711
11	Mattia Bellucci	211	149	0.706
12	Matteo Berrettini	159	112	0.704
13	Frances Tiafoe	676	475	0.703
14	Tomas Machac	279	196	0.703
15	Stan Wawrinka	94	66	0.702
16	Donna Vekic	204	143	0.701
17	Jack Draper	477	334	0.700

RF_Model



1
0.64
100%

```
> print(RF_Model)

Call:
randomForest(formula = ServeResult ~ Speed_KMH + ServeWidth + CourtSide, data = Train, ntree = 100,
importance = TRUE)
  Type of random forest: classification
    Number of trees: 100
No. of variables tried at each split: 1

  OOB estimate of  error rate: 36.31%
Confusion matrix:
  0    1  class.error
0 0 10618 1.000000e+00
1 1 18629 5.367687e-05
```

Values	
accuracy	0.636988409067597
brier_score	0.344150015386193

```
> print(confusion_matrix)
```

```
      Actual
Predicted  0    1
          0    0    0
          1 3539 6210
```

```
> importance(RF_Model)
```

```
      0      1 MeanDecreaseAccuracy MeanDecreaseGini
Speed_KMH  6.475510 -0.1058485      5.815926      240.359249
ServeWidth  5.515154 -1.3489593      6.836305      239.755760
CourtSide   1.125274  0.5549029      1.214343       6.608558
```

```
> table(points$ServeResult)
```

```
  0    1
14157 24840
```