

Shot Classification

Features

① $y_2 - y_1$

$$\frac{f_2 - f_1}{11.89}$$

relative horizontal position
of players on hit.

$$xy$$

② $\text{Dist from Baseline}$
 (Ball tip)

ball tip & baseline distance

$$(11.89 - \text{final } x \text{ position})$$

③ $\text{Dist. from sideline}$
 $(4.115 - \text{final } y \text{ position})$

④ Shot Angle $m_1 \& m_2$

ballarc1 start position

⑤ Player displacement. initial x position,
initial y position.

Ball on bounce.

✓ final x position.

✓ final y position.

⑥ D1-x Distance of hit & ball bounce.
 $(P_{I_arc1-x} - \text{final x position})$
time.

D2-y $(P_{I_arc1-y} - \text{final y position})$
time.

Speed on bounce

Serve Scoring | Serve Rating

→ (4-5 parameters) trained that model on
to These + Hand → Target
+ Ranking → ace or not

→