```
 1 2025-05-06 17:43:23|INFO     |cat_boost      |
   run_catboost_training|  35|Loading test data,
   training data, validation data
 2 2025-05-06 17:43:23|INFO     |cat_boost      |
   run_catboost_training|  40|Cleaning Numerical Data
   Set
 3 2025-05-06 17:43:23|INFO     |cat_boost      |
   run_catboost_training|  51|Preparing Data Set for
   CatBoost
 4 2025-05-06 17:43:23|INFO     |cat_boost      |
   run_catboost_training|  59|Training CatBoost Model
 5 Learning rate set to 0.058542
 6 0:  learn: 0.4833140   test: 0.4833504 best: 0.4833504
   0)  total: 179ms   remaining: 2m 59s
 7 100:   learn: 0.0002602   test: 0.0002710 best: 0.
   0002710 (100)   total: 3.95s   remaining: 35.1s
 8 200:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 8.5s remaining: 33.8s
 9 300:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 19.5s   remaining: 45.2s
10 400:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 24.5s   remaining: 36.5s
11 500:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 43s  remaining: 42.8s
12 600:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 47.1s   remaining: 31.3s
13 700:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 50.8s   remaining: 21.7s
14 800:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 54.3s   remaining: 13.5s
15 900:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 57.9s   remaining: 6.36s
16 999:   learn: 0.0002601   test: 0.0002709 best: 0.
   0002709 (151)   total: 1m 1s   remaining: 0us
17
18 bestTest = 0.0002708671108
19 bestIteration = 151
20
21 Shrink model to first 152 iterations.
22 2025-05-06 17:44:25|INFO     |cat_boost      |
   run_catboost_training|  65|Evaluating CatBoost Model
```

```
23 2025-05-06 17:44:25|INFO    |cat_boost       |
   run_catboost_training|  67|🔹 Validation Set
   Performance:
24 2025-05-06 17:44:25|INFO    |cat_boost       |
   run_catboost_training|  68|              precision
      recall  f1-score   support
25
26              0       1.00      1.00      1.00      1726
27              1       1.00      1.00      1.00      3604
28
29      accuracy                          1.00      5330
30     macro avg       1.00      1.00      1.00      5330
31  weighted avg       1.00      1.00      1.00      5330
32
33 2025-05-06 17:44:25|INFO    |cat_boost       |
   run_catboost_training|  69|[[1726     0]
34  [   0 3604]]
35 2025-05-06 17:44:25|INFO    |cat_boost       |
   run_catboost_training|  78|🔹 Feature Importances:
36            Feature Id  Importances
37 0         EconomyRate    71.398897
38 1    WicketDeliveries    26.913655
39 2          StrikeRate     1.279857
40 3      battingStyles_x     0.148399
41 4   BoundaryPercentage     0.129463
42 5         BattingTeam     0.103736
43 6               venue     0.016958
44 7             WinLoss     0.005770
45 8               Phase     0.003266
46 9              Batter     0.000000
47 10             Bowler     0.000000
48 127.0.0.1 - - [06/May/2025 17:44:25] "GET /
   run_catboost_training HTTP/1.1" 200 -
49
```