Metadata columns: ['Feature', 'Short description', 'Can be used in the model', 'Cannot be used in the model'] Unique values in 'Can be used in the model': ['x' nan] Allowed features (from metadata): ['game', 'season', 'home team', 'away team', 'starting min', 'home 0', 'home 1', 'home 2', 'home 3', 'home 4', 'away 0', 'away 1', 'away 2', 'away 3', 'away 4'] Loaded matchups-2007.csv with shape (27500, 53) Loaded matchups-2008.csv with shape (26593, 53) Loaded matchups-2009.csv with shape (26407, 53) Combined training data shape: (80500, 53) Using ML approach with target column: home 4 Input features used for modeling: ['game', 'season', 'home team', 'away team', 'starting min', 'home 0', 'home 1', 'home 2', 'home 3', 'away 0', 'away 1', 'away 2', 'away 3', 'away 4'] Training data preprocessing complete. Shape of X train full: (80500, 14) Training split shape: (64400, 14) Validation split shape: (16100, 14) RandomForest model training complete. Validation Accuracy: 83.16% Classification Report (Validation): precision recall fl-score support

	precision	recall	f1-score	support	
0	0.00	0.00	0.00	0	
2	0.80	1.00	0.89	12	
3	0.00	0.00	0.00	1	
5	0.00	0.00	0.00	1	
6	0.66	0.97	0.79	38	
7	0.33	0.50	0.40	2	
10	1.00	1.00	1.00	1	
11	0.75	0.50	0.60	6	
12	0.00	0.00	0.00	1	
13	0.00	0.00	0.00	1	
14	0.00	0.00	0.00	1	
17	0.00	0.00	0.00	1	
18	0.00	0.00	0.00	1	
19	0.67	1.00	0.80	2	
21	1.00	1.00	1.00	1	
22	1.00	0.67	0.80	3	
23	0.75	0.33	0.46	9	
24	0.00	0.00	0.00	1	
25	1.00	1.00	1.00	1	
26	1.00	1.00	1.00	4	
28	1.00	0.40	0.57	5	
29	0.83	0.94	0.88	87	
30	1.00	1.00	1.00	1	
31	1.00	0.50	0.67	2	
33	0.00	0.00	0.00	2	

34	0.00	0.00	0.00	1
37	1.00	1.00	1.00	1
38	1.00	0.67	0.80	3
39	1.00	0.50	0.67	2
40	0.00	0.00	0.00	2
41	1.00	1.00	1.00	1
				6
42	0.50	0.50	0.50	
44	0.00	0.00	0.00	2
45	0.00	0.00	0.00	4
47	0.70	1.00	0.82	7
49	0.00	0.00	0.00	1
51	0.46	0.60	0.52	10
52	0.00	0.00	0.00	4
54	0.00	0.00	0.00	1
57	1.00	0.33	0.50	6
58	0.85	0.81	0.83	64
59	1.00	0.78	0.88	9
60	1.00	0.50	0.67	12
61	0.59	0.53	0.56	19
63	0.62	0.50	0.56	10
64	0.75	0.88	0.81	98
65	1.00	0.25	0.40	4
66	0.86	0.80	0.83	15
67	0.90	0.50	0.64	18
68	0.00	0.00	0.00	0
69	0.33	0.67	0.44	3
70	0.75	0.75	0.75	4
71	0.81	0.46	0.59	65
72	0.00	0.00	0.00	3
74	0.33	0.14	0.20	7
75	0.00	0.00	0.00	2
76	0.00	0.00	0.00	1
77	0.64	1.00	0.78	7
78	0.00	0.00	0.00	2
79	0.50	0.29	0.36	7
80	0.67	1.00	0.80	2
81	0.82	0.83	0.82	99
82	0.00	0.00	0.00	1
83	0.82	0.93	0.87	272
84	0.00	0.00	0.00	0
85	0.74	0.74	0.74	19
86	1.00	0.50	0.67	6
88	0.72	0.70	0.71	30
89	0.00	0.00	0.00	2
90	0.00	0.00	0.00	0
92	0.83	0.45	0.59	11
93	0.00	0.00	0.00	0
				-

94	0.00	0.00	0.00	0
95	0.58	0.58	0.58	19
96	0.71	0.81	0.76	21
97	0.00	0.00	0.00	1
98				0
	0.00	0.00	0.00	
99	0.67	0.54	0.60	26
100	0.68	0.65	0.67	23
101	0.81	0.57	0.67	30
102	0.00	0.00	0.00	2
103	0.58	0.50	0.54	38
104	0.47	0.47	0.47	17
106	0.94	0.65	0.77	49
107	0.50	0.35	0.41	17
109	0.50	0.20	0.29	5
110	0.93	0.72	0.81	18
111	1.00	0.40	0.57	5
112	0.67	0.57	0.62	7
113	1.00	0.80	0.89	5
114	0.71	0.33	0.45	15
115	1.00	1.00	1.00	3
116	0.81	0.97	0.88	112
117	0.83	0.83	0.83	12
118	0.00	0.00	0.00	0
119	0.79	0.73	0.76	81
120	0.60	0.38	0.46	8
121	0.50	0.25	0.33	8
122	0.00	0.00	0.00	1
123	0.80	0.67	0.73	6
124	0.50	0.20	0.29	5
127				3
	1.00	0.67	0.80	
128	0.73	0.59	0.65	27
129	0.79	0.77	0.78	30
130	0.81	0.88	0.84	140
131	0.00	0.00	0.00	1
132	0.50	0.25	0.33	4
133	0.00	0.00	0.00	1
134	0.67	0.28	0.39	29
135	1.00	1.00	1.00	1
136	0.88	0.54	0.67	13
137	0.83	0.62	0.71	8
138	0.50	1.00	0.67	1
139	0.80	0.57	0.67	7
140	0.60	0.50	0.55	12
141	0.84	0.90	0.87	130
142	1.00	0.25	0.40	4
143	0.82	0.82	0.82	11
144	0.70	0.70	0.70	10

145	1.00	0.25	0.40	4
				_
146	0.50	0.29	0.36	7
				2
148	0.50	0.33	0.40	3
149	0.90	0.50	0.64	18
150	1.00	1.00	1.00	1
151	0.75	0.38	0.50	8
152	0.67	0.84	0.75	45
150	0 0 2	0 62	0 71	2.4
153	0.83	0.62	0.71	24
154	0.76	0.62	0.68	26
155	0.62	0.56	0.59	32
156	0.75	0.60	0.67	20
157	1.00	0.70	0.82	10
158	0.74	0.41	0.53	49
159	0.77	0.85	0.81	86
160	0 22	0 12	0 10	8
100	0.33	0.12	0.18	0
161	0.78	0.89	0.83	35
162	0.68	0.78	0.73	36
163	0.78	0.78	0.78	23
164	0.71	0.77	0.74	31
165	0.53	0.50	0.51	20
166	0.67	0.50	0.57	16
167	0.00	0.00	0.00	8
107	0.00	0.00	0.00	O
168	0.69	0.47	0.56	19
169	0.80	0.94	0.87	113
170	0.62	0.71	0.67	7
171	0.71	0.80	0.75	59
172	0.00	0.00	0.00	1
173	0.00	0.00	0.00	1
174	0.80	0.75	0.77	48
175	0.83	0.61	0.70	33
176	0.50	0.50	0.50	6
177	1.00	0.86	0.92	7
178	1.00	0.50	0.67	4
179	0.77	0.77	0.77	107
180	0.00	0.00	0.00	0
				U
181	0.72	0.79	0.75	97
			0 00	116
182	0.79	0.84	0.82	116
183	1.00	0.25	0.40	4
184	0.82	0.80	0.81	45
185	0.00	0.00	0.00	4
186	0.70	0.33	0.45	21
187	0.72	0.62	0.67	21
188	0.62	0.89	0.73	9
189	0.83	0.86	0.84	120
190	0.69	0.73	0.71	93
191	1.00	0.67	0.80	3
192	0.82	0.82	0.82	105

193	0.50	1.00	0.67	3
194	0.56	0.64	0.60	14
195	1.00	0.60	0.75	10
196	0.67	0.67	0.67	3
197	0.00	0.00	0.00	6
198	0.67	0.72	0.69	39
201	0.67	0.80	0.73	5
202	0.40	0.40	0.40	5
203	1.00	0.33	0.50	9
204	0.89	0.81	0.85	73
205	0.43	0.43	0.43	7
206	0.85	0.86	0.86	142
207	0.75	0.50	0.60	12
208	0.73	0.73	0.73	30
209	1.00	0.67	0.80	6
210	0.67	0.29	0.40	7
211	0.75	0.67	0.71	49
212	0.85	0.64	0.73	36
213	0.82	0.50	0.62	72
214	0.50	0.33	0.40	3
215	0.80	0.57	0.67	7
216	0.86	0.63	0.73	19
217	0.63	0.75	0.69	44
218	0.79	0.61	0.69	36
219	0.70	0.79	0.74	29
220	1.00	0.67	0.80	3
221	0.67	0.29	0.40	14
223	0.68	0.75	0.71	64
224	0.81	0.92	0.86	276
225	0.60	0.43	0.50	7
226	0.75	0.81	0.78	62
227	0.79	0.88	0.84	104
228	0.73	0.57	0.64	14
229	0.87	0.87	0.87	247
230	0.86	0.95	0.90	282
231				
	0.72	0.68	0.70	34
232	0.78	0.49	0.60	65
233	0.65	0.84	0.73	31
234	0.88	0.85	0.87	172
235	1.00	1.00	1.00	4
236	0.76	0.80	0.78	93
237	1.00	0.36	0.53	11
238	0.67	0.40	0.50	5
	0.70	0.55	0.62	29
239				
240	0.20	0.33	0.25	3
241	1.00	0.73	0.84	11
242	0.73	0.59	0.65	41
272	0.73	0.00	0.00	4 1

243	0.79	0.86	0.82	43
244	0.78	0.84	0.81	152
245	1.00	1.00	1.00	1
246	0.70	0.72	0.71	43
				76
248	0.86	0.55	0.67	
249	0.86	0.95	0.90	200
250	0.93	0.76	0.84	93
251	0.84	0.78	0.81	60
252	0.00	0.00	0.00	7
253	0.72	0.65	0.68	65
254	0.88	0.87	0.88	105
255	0.00	0.00	0.00	4
256	0.82	0.93	0.87	313
257	0.92	0.94	0.93	86
258	0.38	0.50	0.43	10
259	0.91	0.62	0.74	16
260	0.82	0.90	0.86	135
261	0.90	0.78	0.84	49
262	0.75	0.25	0.38	12
263	0.79	0.79	0.79	38
264	0.70	0.76	0.73	85
265	0.90	0.63	0.75	30
266	0.81	0.69	0.74	67
267	0.73	0.74	0.74	66
268	1.00	0.33	0.50	9
270	0.85	0.68	0.76	50
271	0.75	0.78	0.77	46
272	0.00	0.00	0.00	6
273	0.90	0.64	0.75	28
274	0.89	0.92	0.91	208
275	1.00	0.84	0.91	25
276	0.80	0.62	0.70	13
277	0.68	0.67	0.67	51
278	0.85	0.71	0.77	41
279	0.84	0.77	0.80	66
280	0.95	0.97	0.96	90
281	0.78	0.66	0.71	38
282	0.33	0.33	0.33	3
283	0.86	0.87	0.87	125
284	0.84	0.59	0.69	61
285	0.74	0.70	0.72	56
286	0.90	0.94	0.92	93
287	0.74	0.57	0.64	49
288	1.00	0.50	0.67	2
289	0.78	0.58	0.67	12
290	0.86	0.88	0.87	163
291	1.00	1.00	1.00	1

292	0.95	0.95	0.95	19
293				5
	0.57	0.80	0.67	
294	0.86	0.95	0.90	305
295	0.76	0.86	0.80	115
296	0.88	0.90	0.89	174
297	0.85	0.93	0.89	55
298	0.95	0.98	0.96	341
299	0.77	0.77	0.77	56
301	0.63	0.61	0.62	31
302	0.00	0.00	0.00	2
303	0.82	0.72	0.77	71
305	0.85	0.88	0.86	222
306	0.87	0.81	0.84	42
307	0.90	0.96	0.93	297
308	0.76	0.74	0.75	101
309	0.78	0.87	0.82	115
310	0.86	0.63	0.73	38
311	1.00	1.00	1.00	3
312	0.79	0.79	0.79	95
313	0.86	0.89	0.87	217
314	0.75	0.85	0.80	136
315	0.85	0.76	0.80	111
316	0.96	0.96	0.96	299
317	0.82	0.82	0.82	125
318	0.76	0.75	0.76	60
319	0.92	0.93	0.92	298
320	0.90	0.78	0.83	139
321	0.81	0.89	0.85	200
322	0.92	0.83	0.87	29
323	0.89	0.91	0.90	286
324	0.82	0.76	0.79	97
325	0.81	0.87	0.84	221
326	0.91	0.98	0.94	262
327	0.88	0.92	0.90	258
328	0.00	0.00	0.00	1
329	1.00	0.69	0.82	13
			0.71	11
330	1.00	0.55		
331	0.84	0.95	0.89	361
333	0.85	0.85	0.85	144
334	0.89	0.82	0.86	40
335	0.90	0.88	0.89	180
336	0.92	0.84	0.88	82
337	1.00	1.00	1.00	4
338	1.00	0.83	0.91	6
339	1.00	0.86	0.93	37
340	1.00	0.60	0.75	5
341	0.80	0.62	0.70	32

	342	0.89	0.89	0.89	246
	343	0.86	0.92	0.89	141
	344	0.89	0.91	0.90	123
	345	0.95	0.98	0.96	252
	346	0.00	0.00	0.00	1
	347	0.95	0.88	0.92	117
	348	0.90	0.95	0.92	258
	349	0.84	0.92	0.88	210
	350	0.91	0.95	0.93	235
accur	acy			0.83	16100
macro	avg	0.67	0.60	0.62	16100
weighted	avg	0.83	0.83	0.83	16100

Test data shape: (1000, 14)
Test labels shape: (1000, 1)

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py
:1565: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0
in labels with no true samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py
:1565: UndefinedMetricWarning: Precision is ill-defined and being set to
0.0 in labels with no predicted samples. Use `zero_division` parameter to
control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py
:1565: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0
in labels with no true samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result)) /usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py
:1565: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0
in labels with no true samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
Test data preprocessing complete. Shape of X test: (1000, 14)

Predictions saved to 'NBA_predictions.csv'. Preview:

Fifth Player

- 0 Troy Murphy
- 1 Tracy McGrady
- 2 Tim Duncan
- 3 Sebastian Telfair
- 4 Stromile Swift

Test Accuracy (matching removed player): 9.10%

Classification Report (Test):

	precision	recall	f1-score	support
-1	0.00	0.00	0.00	518
0	0.00	0.00	0.00	2
1	0.00	0.00	0.00	2
2	0.00	0.00	0.00	0
3	0.00	0.00	0.00	0
6	0.09	0.33	0.14	3
8	0.00	0.00	0.00	1
9	0.00	0.00	0.00	1
10	0.00	0.00	0.00	4
11	0.00	0.00	0.00	2
14	0.00	0.00	0.00	4
16	0.00	0.00	0.00	4
19	0.00	0.00	0.00	2
20	0.00	0.00	0.00	6
21	0.00	0.00	0.00	1
22	0.00	0.00	0.00	1
23	0.00	0.00	0.00	1
24	0.00	0.00	0.00	1
25	0.00	0.00	0.00	4
26	0.00	0.00	0.00	0
29	0.33	0.50	0.40	2
30	0.00	0.00	0.00	2
31	0.00	0.00	0.00	1
33	0.00	0.00	0.00	2
37	0.00	0.00	0.00	2
39	0.00	0.00	0.00	2
40	0.00	0.00	0.00	2
41	0.00	0.00	0.00	7
42	0.00	0.00	0.00	3
44	0.00	0.00	0.00	1
45	0.00	0.00	0.00	3
47	0.00	0.00	0.00	1
49	0.00	0.00	0.00	1
52	0.00	0.00	0.00	1
54	0.00	0.00	0.00	2
55	0.00	0.00	0.00	4

56	0.00	0.00	0.00	3
58	0.00	0.00	0.00	0
59	0.00	0.00	0.00	1
60	0.00	0.00	0.00	2
61	0.00	0.00	0.00	3
62	0.00	0.00	0.00	3
63	0.00	0.00	0.00	1
64	0.00	0.00	0.00	2
66	0.00	0.00	0.00	2
68	0.00	0.00	0.00	6
71	0.00	0.00	0.00	1
72	0.00	0.00	0.00	3
75	0.00	0.00	0.00	4
79	0.00	0.00	0.00	2
80	0.00	0.00	0.00	1
81	0.00	0.00	0.00	0
83	0.10	1.00	0.17	2
84	0.00	0.00	0.00	2
85	0.00	0.00	0.00	1
86	0.00	0.00	0.00	11
87	0.00	0.00	0.00	1
88	0.00	0.00	0.00	1
92	0.00	0.00	0.00	1
94	0.00	0.00	0.00	1
95	0.00	0.00	0.00	3
96	0.00	0.00	0.00	1
97	0.00	0.00	0.00	2
99	0.50	0.33	0.40	3
100	0.00	0.00	0.00	6
101	0.00	0.00	0.00	4
103	0.00	0.00	0.00	0
104	0.00	0.00	0.00	3
105	0.00	0.00	0.00	4
106	0.00	0.00	0.00	0
107	0.00	0.00	0.00	1
108	0.00	0.00	0.00	2
109	0.00	0.00	0.00	3
				3
110	0.00	0.00	0.00	
111	0.00	0.00	0.00	0
112	0.00	0.00	0.00	5
113	0.00	0.00	0.00	1
116	0.00	0.00	0.00	3
117	0.00	0.00	0.00	2
	0.10			2
119		0.50	0.17	
120	0.00	0.00	0.00	1
122	0.00	0.00	0.00	1
123	0.00	0.00	0.00	1

1 0 4	0 00	0 00	0 00	1
124	0.00	0.00	0.00	1
125	0.00	0.00	0.00	2
128	0.00	0.00	0.00	2
129	0.00	0.00	0.00	1
130	0.31	0.67	0.42	6
131	0.00	0.00	0.00	1
134	0.00	0.00	0.00	0
136	0.00	0.00	0.00	2
138	0.00	0.00	0.00	6
139	0.00	0.00	0.00	2
141	0.00	0.00	0.00	3
144	0.00	0.00	0.00	0
146	0.00	0.00	0.00	1
147	0.00	0.00	0.00	1
148	0.00	0.00	0.00	1
151	0.00	0.00	0.00	5
152	0.06	0.25	0.10	4
153	0.00	0.00	0.00	5
154	0.00	0.00	0.00	3
155	0.00	0.00	0.00	0
156	0.00	0.00	0.00	3
158	0.00	0.00	0.00	3
159	0.00	0.00	0.00	0
161	0.11	0.50	0.18	2
162	0.00	0.00	0.00	0
163	1.00	0.50	0.67	2
164	0.50	1.00	0.67	1
165	0.00	0.00	0.00	2
168	0.00	0.00	0.00	3
169	0.14	0.33	0.20	3
170	0.00	0.00	0.00	3
171	0.11	0.25	0.15	4
174	0.00	0.00	0.00	0
175	0.67	0.67	0.67	3
176	0.00	0.00	0.00	1
177	0.00	0.00	0.00	0
179	0.67	1.00	0.80	2
181	0.00	0.00	0.00	1
182	0.25	0.17	0.20	6
186	0.00	0.00	0.00	2
187	0.00	0.00	0.00	2
189	0.50	0.45	0.48	11
190	0.50	0.33	0.40	3
192	0.00	0.00	0.00	1
193	0.00	0.00	0.00	1
194	0.00	0.00	0.00	3
195	1.00	0.50	0.67	2
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198	1.00	0.50	0.67	2
199	0.00	0.00	0.00	2
204	0.00	0.00	0.00	4
206	0.18	0.40	0.25	5
207	0.00	0.00	0.00	4
211	0.12	1.00	0.22	1
213	0.17	1.00	0.29	1
216	0.00	0.00	0.00	0
		0.50	0.67	2
217	1.00			
218	0.00	0.00	0.00	2
219	0.00	0.00	0.00	1
221	0.00	0.00	0.00	4
223	0.20	0.50	0.29	2
224	0.03	0.50	0.05	2
225	0.00	0.00	0.00	1
			0.50	2
226	0.50	0.50		
227	0.00	0.00	0.00	1
229	0.25	1.00	0.40	2
230	0.00	0.00	0.00	3
231	0.00	0.00	0.00	1
232	0.00	0.00	0.00	1
233	0.00	0.00	0.00	3
234	0.00	0.00	0.00	2
235	0.00	0.00	0.00	0
236	0.08	0.33	0.12	3
242	0.00	0.00	0.00	1
243	0.00	0.00	0.00	5
244	0.00	0.00	0.00	2
246	1.00	1.00	1.00	1
				2
248	0.00	0.00	0.00	
249	0.14	1.00	0.25	1
250	0.50	0.50	0.50	2
251	0.00	0.00	0.00	3
252	0.00	0.00	0.00	3
253	0.33	1.00	0.50	1
254	0.00	0.00	0.00	0
256	0.30	1.00	0.46	3
257	0.20	0.67	0.31	3
258	0.00	0.00	0.00	2
260	0.00	0.00	0.00	0
263	0.00	0.00	0.00	1
264	0.00	0.00	0.00	3
266	0.00	0.00	0.00	1
267	0.00	0.00	0.00	0
272	0.00	0.00	0.00	0
274	0.00	0.00	0.00	1
275	0.00	0.00	0.00	2

276	1.00	1.00	1.00	1
277	0.00	0.00	0.00	2
278	0.00	0.00	0.00	1
279	0.04	0.33	0.08	3
280	0.00	0.00	0.00	0
281	0.00	0.00	0.00	1
283	0.00	0.00	0.00	2
284	0.00	0.00	0.00	1
286	1.00	1.00	1.00	1
287	0.00	0.00	0.00	0
288	0.00	0.00	0.00	2
290	0.00	0.00	0.00	2
292	0.00	0.00	0.00	0
294	0.05	0.50	0.10	4
295	0.50	1.00	0.67	2
296	0.50	0.60	0.55	5
297	1.00	1.00	1.00	1
298	0.18	1.00	0.30	3
299	0.10	0.33	0.15	3
301	0.00	0.00	0.00	0
303	0.50	1.00	0.67	1
305	0.00	0.00	0.00	1
307	0.00	0.00	0.00	0
308	0.11	1.00	0.20	1
309	0.03	0.25	0.05	4
310	0.00	0.00	0.00	0
312	0.00	0.00	0.00	4
313	0.02	1.00	0.04	1
314	0.12	0.20	0.15	5
315	0.00	0.00	0.00	0
316	0.33	0.86	0.48	7
317	0.33	1.00	0.50	2
318	0.00	0.00	0.00	1
319	0.29	1.00	0.44	2
	1.00	1.00	1.00	1
320				
321	0.00	0.00	0.00	1
323	0.17	1.00	0.29	3
325	0.03	1.00	0.05	1
326	0.00	0.00	0.00	3
327	0.09	0.33	0.14	3
331	0.00	0.00	0.00	3
333	0.00	0.00	0.00	0
334	0.00	0.00	0.00	1
335	0.00	0.00	0.00	0
339	0.00	0.00	0.00	2
341	0.00	0.00	0.00	0
342	0.06	1.00	0.11	2

	343	0.08	0.17	0.11	6
	344	0.17	1.00	0.29	1
	345	0.00	0.00	0.00	0
	347	0.00	0.00	0.00	0
	348	0.00	0.00	0.00	7
	349	0.00	0.00	0.00	4
	350	0.20	0.67	0.31	3
accur	acy			0.09	1000
macro	avg	0.09	0.17	0.10	1000
weighted	avg	0.05	0.09	0.06	1000

Number of test matches (cases) per year:

Average number of test matches per year: 100.00

Top 10 Feature Importances:

Feature	Importance
home_team	0.159078
home_3	0.156774
home_0	0.094293
home_2	0.094281
game	0.088375
home_1	0.085634
starting_min	0.063244
away_0	0.041001
away_4	0.040655
away_3	0.040481
	home_team home_3 home_0 home_2 game home_1 starting_min away_0 away_4

--- Execution complete. ---

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels with no true samples. Use `zero_division` parameter to control this behavior.

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warn prf(average, modifier, f"{metric.capitalize()} is", len(result))