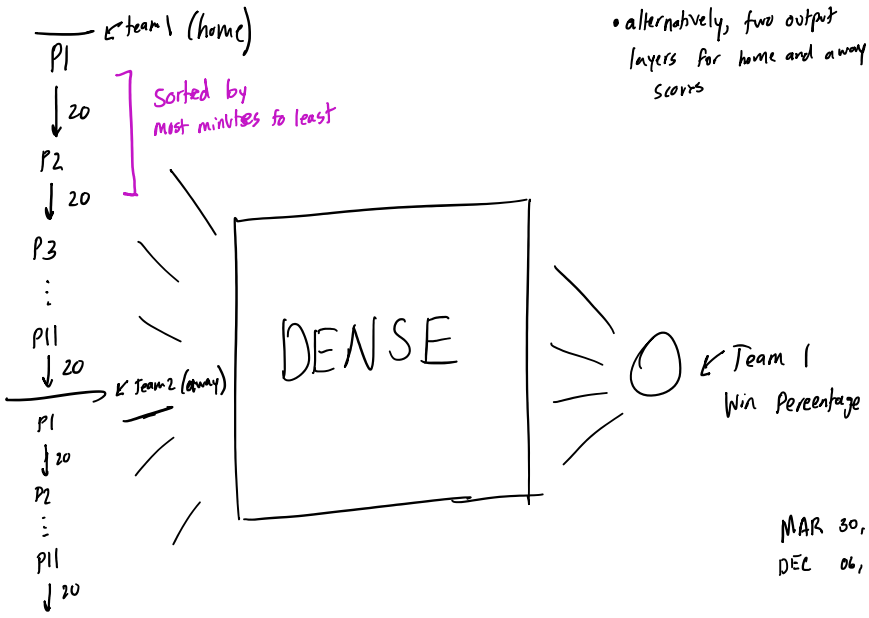
NBA Match Predictor Notes

1230 games × 20 seasons = 24600 box scores

1230 × 26 ⇒



- alternatively, two output layers for home and away scores

- date comparator

MAR 30, 1997 ⇒ 03301997
DEC 06, 2003 ⇒ 12062003

- home/away
- manager/coach
- organization
- record

P1 ↓ +games played

- order of players in nodes will matter

~~individual wins~~

A.C. Green − [04181997 47 min, 10 pts, 5 reb, 3 ast, W; 04191997 . . . . ; 02042001 . . .] ⇒ [04181997; 04191997 47, 10, 5, 3, 1 Wins; 25 games; 02042001 avg. 30, 12, 2, 2; 04042001]

Data Processing

→ remove Video Available
→ remove APR 5th games

- running index

AVG 25 − GAME1 + GAME26

$$pre\_stats[i+1] = \frac{\sum_{k=0}^{i} player\_stats[i]}{i}$$

A.C. Green = [[" ", 0 . . . 0], ["

", april [post stats], ["Apr 20, 1997", + Apr 1991 stats], ["Apr 20,

$$\frac{a_5 + a_{19}}{2}$$

game 1, game 2, game 3, game 4, game 5 GAME_WINDOW=3

$$\underbrace{0}_{x_1}, \underbrace{game\ 1}_{x_2}, \underbrace{\frac{game\ 1 + game\ 2}{2}}_{= x_3}, \underbrace{\frac{g1+g2+g3}{3}}_{x_4}, \underbrace{\quad}_{x_5}$$

$$x_4 = \frac{x_3 \cdot 2 + game\ 3}{3} \quad (i-1 = 3-1)$$

$$x_5 = \frac{x_4 \cdot 3 + game\ 4 - game\ 1}{3}$$

$$x_3 = \frac{x_2 \cdot 1 + game\ 2}{2}$$

$$x_2 = \frac{x_1 \cdot 0 + game\ 1}{(}$$

$$x_i = \frac{x_{i-1} \cdot (i-2) + G_{i-1}}{i-1}$$ (i-1 for 0-indexed $(x_0, x_1, \ldots)$)

$x_2 =$ ''

64,64,3

Training Set Creation

PLAYER:

matchup list = [CHI @ NYK, HOU vs. DAL, ...]

= JAN 19, 1999, CHI @ NYK, 1 ← Knicks won
DEC 30, 2001 HOU vs. DAL, 0 ← Houston won

(away, home)

(home, away)

↑ if home won, the 1, otherwise: 0

match-up dict = { "JAN 19, 1999 CHI vs. NYK": [1, player1, player2, ...],
"DEC 30, 2001 HOU vs. DAL": [0, p1, p2, ...],
...
}

~ 32000 entries

"date": (1, [p1, p2, ...], [p1, p2, ...]) ← HOU won

"date": (0, [...], [...])

HOU DAL

← can do after retrieving

← sort by minutes, first: home players, second: away players

Training Set Creation II

← 378 or 420

player 1 — 21 vals: Wins, Min, FGM, FGA, ⋮, P/M

player 18120

DENSE ≥ 0

- numpy array
- set data (32000, 420)
- set labels (32000,)