

Generating text from structured data

Generování textu ze strukturovaných dat

František Trebuňa
Matematicko-fyzikální fakulta
Univerzita Karlova
Bakalárska Práca, 2021

1. Data

TEAM	WIN	LOSS	PTS ₁	FG_PCT ₂	REB ₃	AST ₄ ...
Raptors	11	6	122	55	42	22
76ers	4	14	95	42	38	27

PLAYER	City	PTS ₁	AST ₄	REB ₃	FG ₅	FGA ₆	S_POS ₇ ...
Kyle Lowry	Toronto	24	8	4	7	9	G
Terrence Ross	Toronto	22	0	3	8	11	N/A
Robert Covington	Philadelphia	20	2	5	7	11	G
Jahlil Okafor	Philadelphia	15	0	5	7	14	C
DeMar DeRozan	Toronto	14	5	5	4	13	G
Jonas Valanciunas	Toronto	12	0	11	6	12	C
Ersan Ilyasova	Philadelphia	11	3	6	4	8	F
Sergio Rodriguez	Philadelphia	11	7	3	4	7	G
Richaun Holmes	Philadelphia	11	1	9	4	10	N/A
Nik Stauskas	Philadelphia	11	2	0	4	9	N/A
Joel Embiid	Philadelphia	N/A	N/A	N/A	N/A	N/A	N/A
...							

Note: ₁ Points; ₂ Field Goal Percentage; ₃ Rebounds; ₄ Assists; ₅ Field Goals; ₆ Field Goals Attempted; ₇ Starting Position; N/A means undefined value

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The host Toronto Raptors defeated the Philadelphia 76ers , 122 - 95 , at Air Canada Center on Monday . The Raptors came into this game as a monster favorite and they did n't leave any doubt with this result . Toronto just continuously piled it on , as they won each quarter by at least four points . The Raptors were lights - out shooting , as they went 55 percent from the field and 68 percent from three - point range . They also held the Sixers to just 42 percent from the field and dominated the defensive rebounding , 34 - 26 . Fastbreak points was a huge difference as well , with Toronto winning that battle , 21 - 6 . Philadelphia (4 - 14) had to play this game without Joel Embiid (rest) and they clearly did n't have enough to compete with a potent Raptors squad . Robert Covington had one of his best games of the season though , tallying 20 points , five rebounds , two assists and two steals on 7 - of - 11 shooting . Jahlil Okafor got the start for Embiid and finished with 15 points and five rebounds . Sergio Rodriguez , Ersan Ilyasova , Nik Stauskas and Richaun Holmes all finished with 11 points a piece . The Sixers will return to action on Wednesday , when they host the Sacramento Kings for their next game . Toronto (11 - 6) left very little doubt in this game who the more superior team is . Kyle Lowry carried the load for the Raptors , accumulating 24 points , four rebounds and eight assists . Terrence Ross was great off the bench , scoring 22 points on 8 - of - 11 shooting . DeMar DeRozan finished with 14 points , five rebounds and five assists . Jonas Valanciunas recorded a double - double , totaling 12 points and 11 rebounds . The Raptors next game will be on Wednesday , when they host the defensively - sound Memphis Grizzlies .

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2. Preprocessing

PLAYER	PTS	City
Kyle Lowry	24	Toronto

PLAYER	PTS	City
Kyle Lowry	24	Toronto

↓

{*entity*: Kyle Lowry}

PLAYER	PTS	City
Kyle Lowry	24	Toronto

↓

{ *entity*: Kyle Lowry; *type*: PTS }

PLAYER	PTS	City
Kyle Lowry	24	Toronto

↓

{*entity*: Kyle Lowry; *type*: PTS; *value*: 24}

PLAYER	PTS	City
Kyle Lowry	24	Toronto

↓

{ *entity*: Kyle Lowry; *type*: PTS; *value*: 24; *home/away*: HOME }

Isaiah Thomas once again excelled , scoring 23 points, **three** assists and **three** rebounds.

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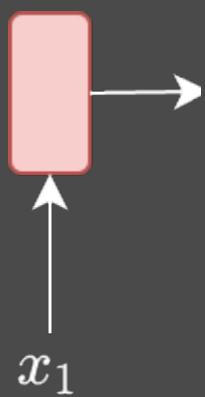


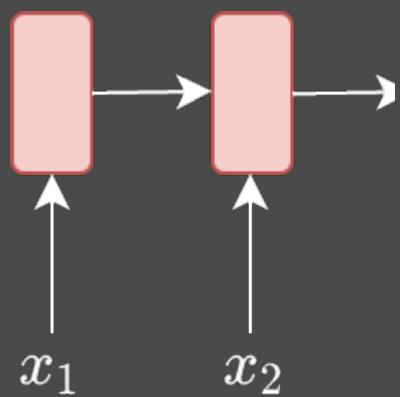
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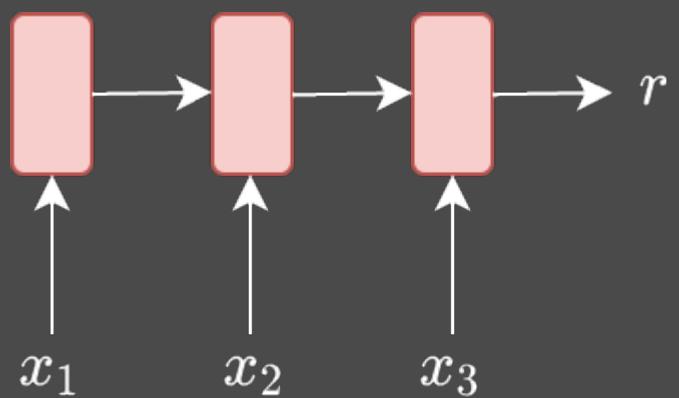


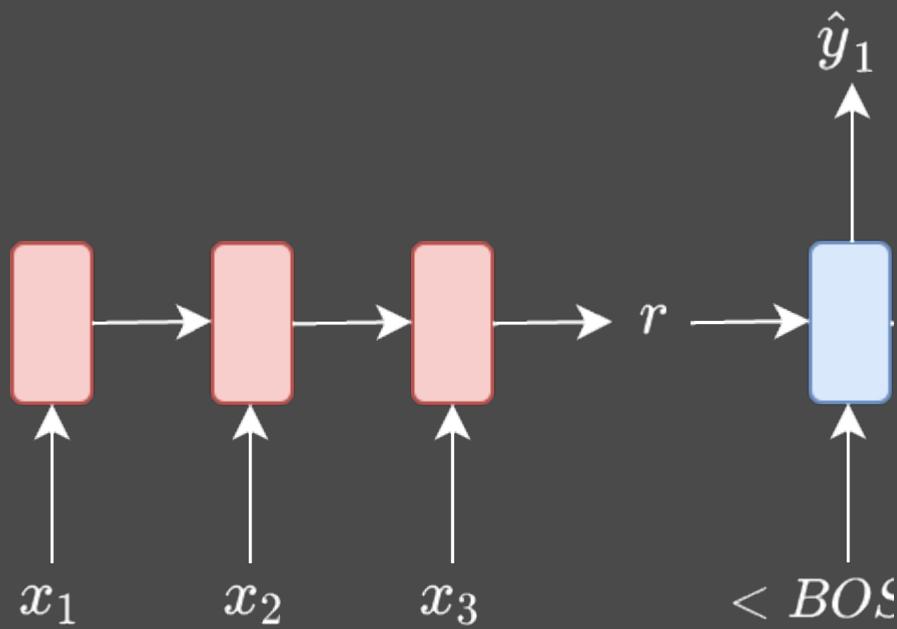
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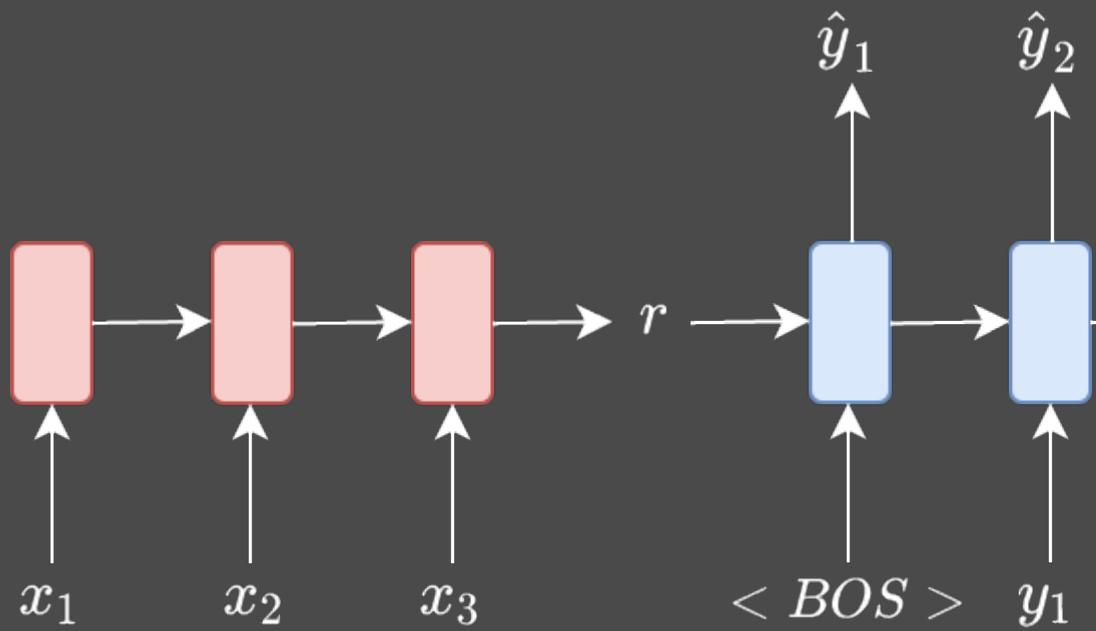
3. Neural Network Models

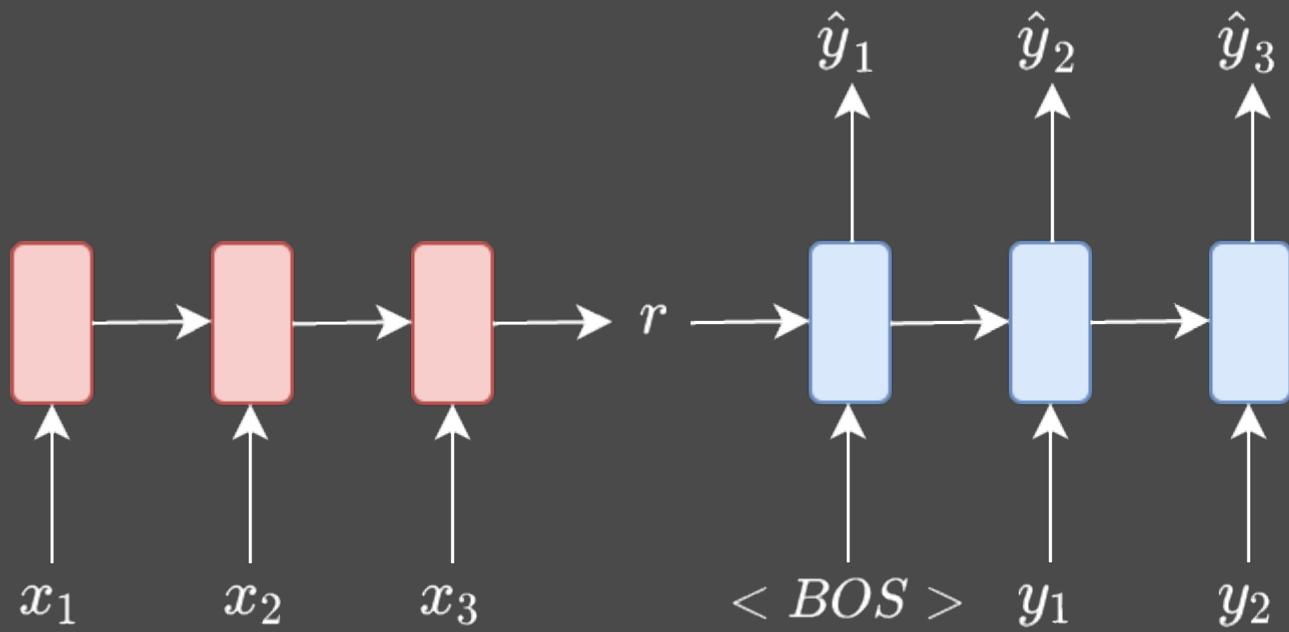


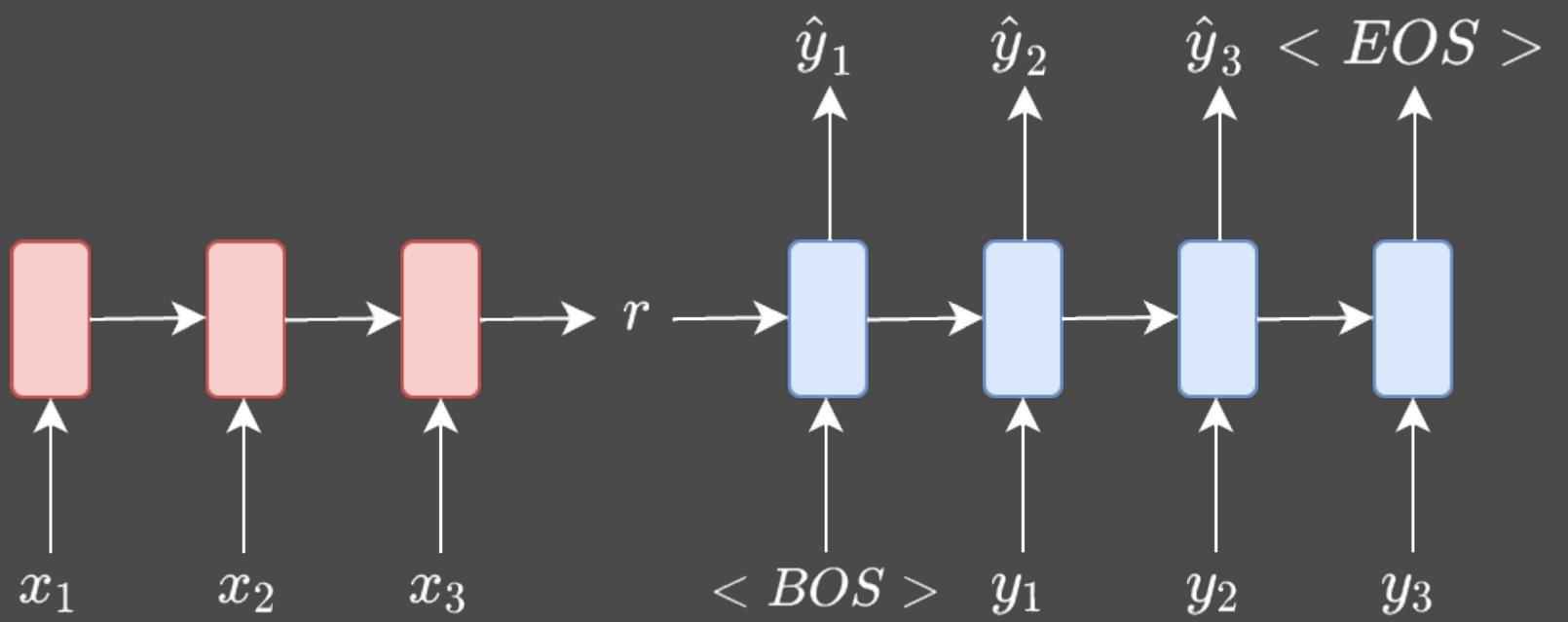


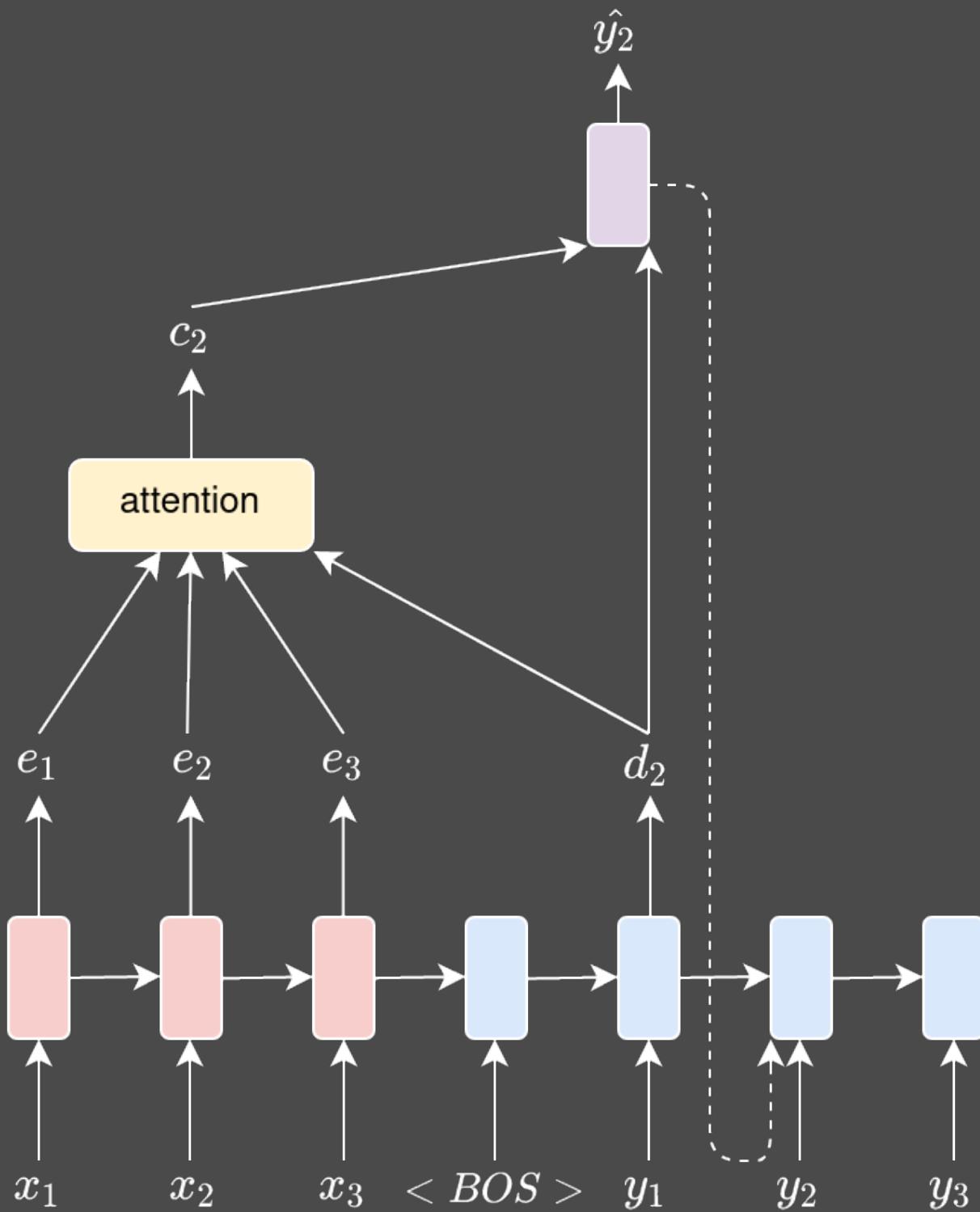




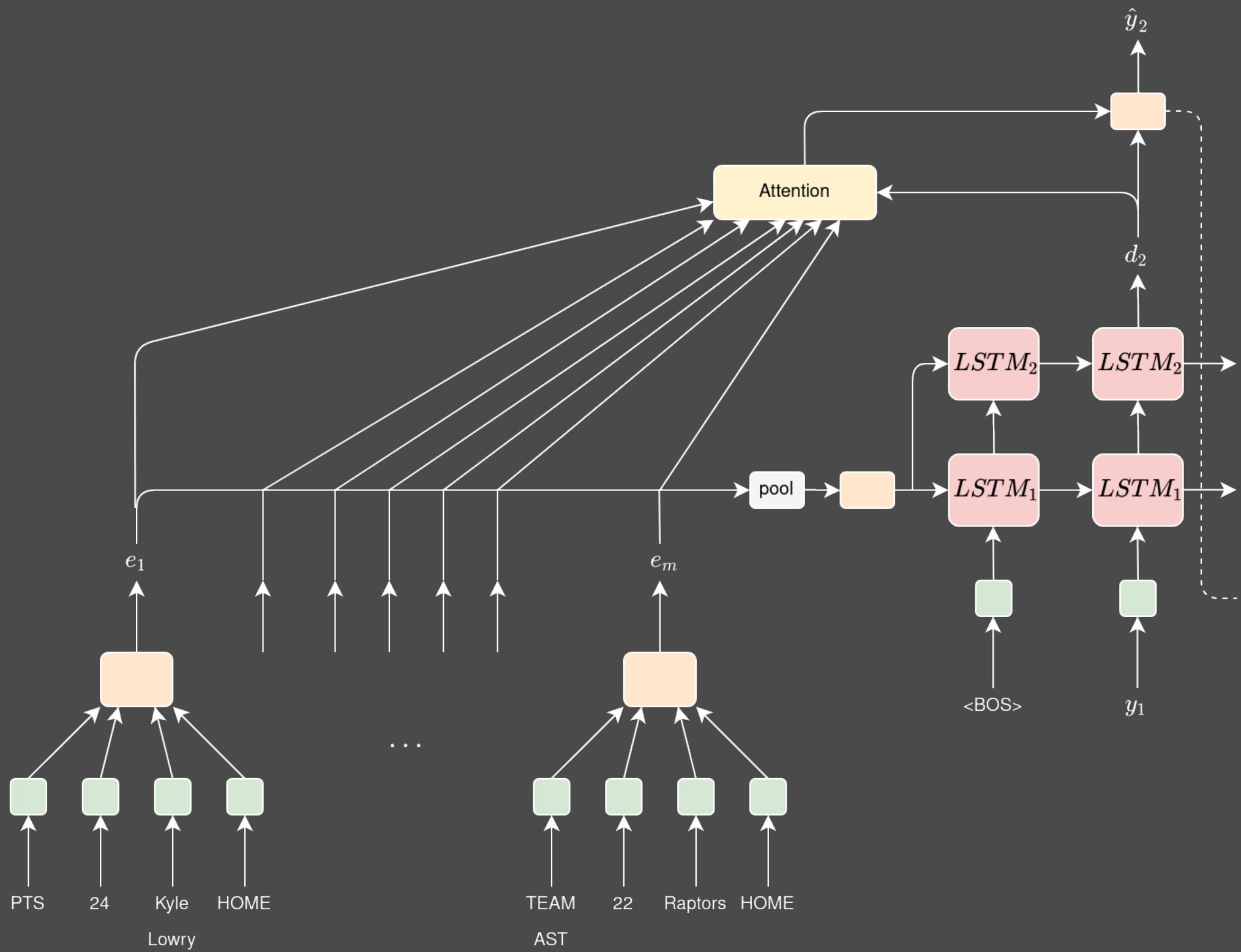








4. Experiments



The Toronto Raptors defeated the Philadelphia 76ers , 109 - 95 , at air canada centre on tuesday . The Raptors (21 - 15) checked in to saturday 's contest trying campaign , having won 7 of their last 7 games . However , Philadelphia was able to pull away in the second half , as they outscored Philadelphia by a 59 - 44 margin over the second and third periods . DeMar DeRozan led the way with a points - point , 10 - rebound double - double that also included an assist , a steal and a block . Kyle Lowry was right behind with a points - point , 10 - rebound double - double that also included an assist , a steal and a block . Jonas Valanciunas posted a near double - double with 17 points , 9 rebounds , 2 assists and a steal . Jonas Valanciunas posted a near double - double with 11 points , 9 rebounds , 2 assists and a steal . Ersan Ilyasova was productive in a reserve role as well with 11 points , 4 rebounds , an assists and a steal . The Raptors head back home to take on the Toronto Raptors on saturday night , while the Raptors remain home to tangle with the Brooklyn Nets on tuesday evening as well .

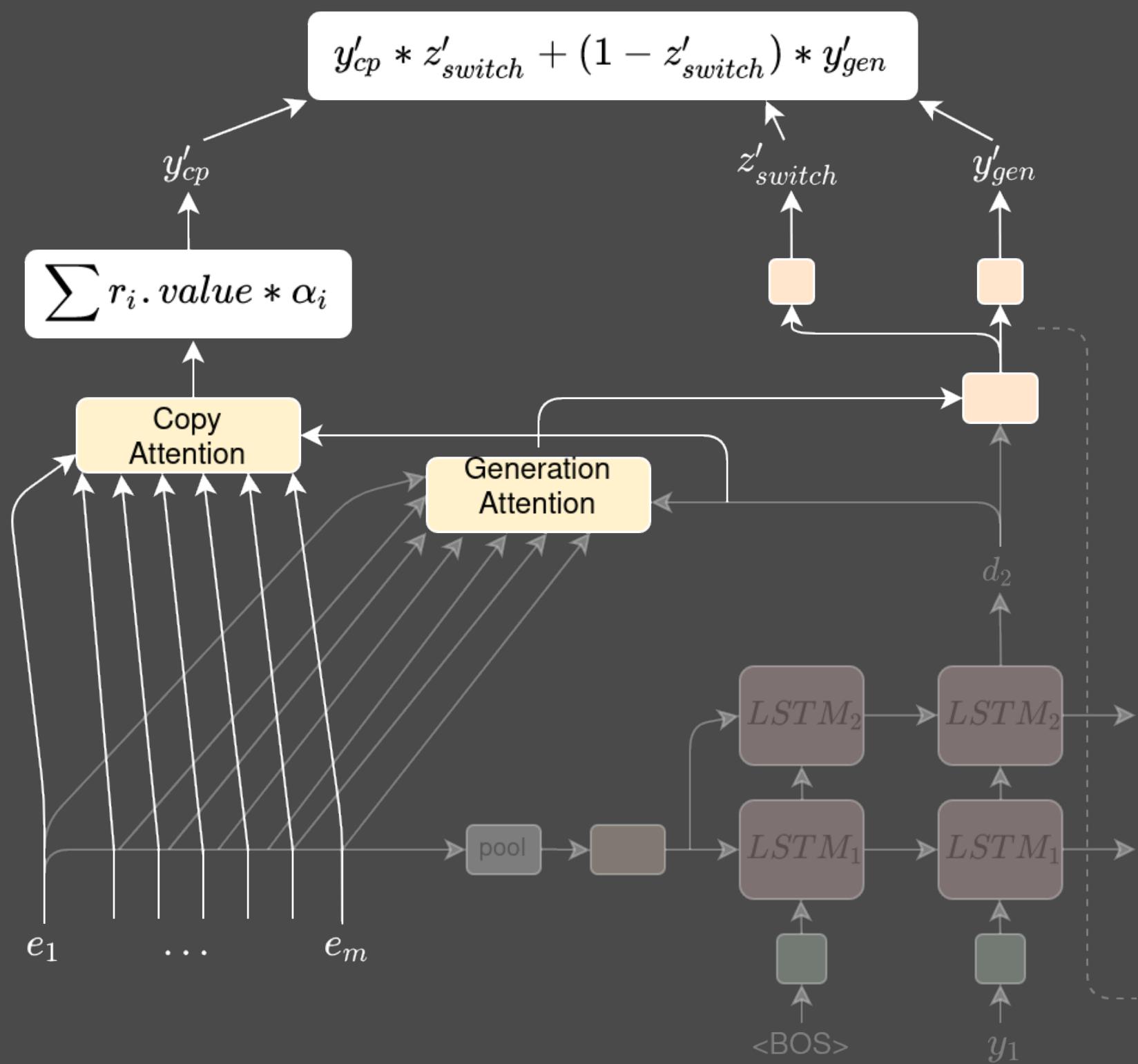
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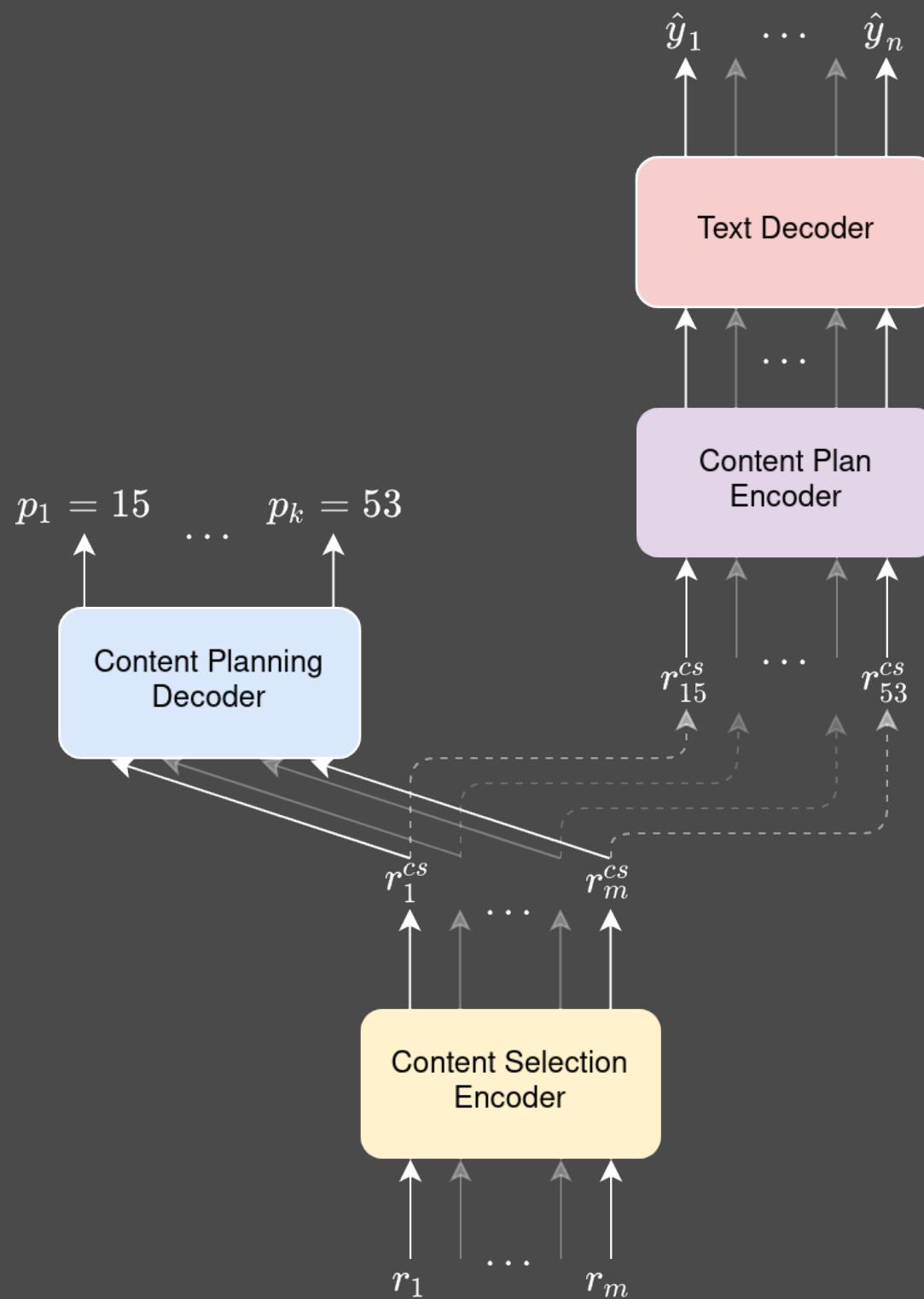
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Home Team Records

Away Team Records

Records about 10 Best Players (according to their point totals)

The Toronto Raptors defeated the Philadelphia 76ers , 122 - 95 , at wells fargo center on saturday evening . The Raptors (11 - 6) came away with a 33 - point second quarter , where the Raptors (11 - 14) opened up a 12 - point lead by the end of the first quarter . The game remained close in the third quarter , as the Raptors outscored the sixers , 31 - 24 . Toronto was led by Terrence Ross , who poured in 22 points on 7 - of - 11 shooting , to go along with 8 assists and 4 rebounds , in 32 minutes . Robert Covington followed up with 22 points on 8 - of - 11 shooting , including 3 - of - 5 from long range , in 23 minutes off the bench . Jonas Valanciunas was solid with 12 points and 5 assists , while Terrence Ross chipped in 22 points on 8 - of - 11 shooting , including 3 - of - 5 from long range , in 23 minutes off the bench . The Raptors shot 55 percent from the field , while the 76ers shot just 42 percent from the field and 41 percent from long range . Jahlil Okafor was the high - point man for Philadelphia , with 24 points on 7 - of - 9 shooting , to go along with 8 assists and 4 rebounds , in 32 minutes . Jahlil Okafor followed up with 15 points , 5 rebounds , 5 assists and 2 steals , in 32 minutes .

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5 unique players

Model	Validation Perplexity	Validation BLEU	Test BLEU	Entity Recall	Factual Correctness
Baseline	10.59	9.99	10.6	37.35%	8.03%
Copy	9.87	12.19	12.5	39.76%	47.13%
Content Selection and Planning	8.76	22.8	—	71.43%	54.69%
Copy_{pruned}	11.24	15.18	15.63	50.6%	49.87%

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Thank you for your attention