

# Homework 9

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## Contents

<b>1 Q 1.1 : Without RAG</b>	<b>1</b>
1.1 A . . . . .	1
1.2 B: Questions and Completions . . . . .	1
<b>2 Q 1.2 : With RAG</b>	<b>2</b>
2.1 A . . . . .	2
2.2 B . . . . .	2
<b>3 Q 1.3 : Top-N RAG</b>	<b>2</b>
3.1 A : LLMs as List-wise Reranker . . . . .	2
3.2 B: Effect of Shuffling . . . . .	2

## 1 Q 1.1 : Without RAG

### 1.1 A

No, because TOFU is a dataset with fictional characters.

### 1.2 B: Questions and Completions

**What notable award has Anara Yusifova won for her work?** Anara Yusifova has won several notable awards, including:1. Cosmos - the first woman of Arab origin in the history of the

**How does Nakamura's book 'A Piece of Me' differ from his other works?** Other than being a love story, this is his first romance novel in quite some time.

**How did winning the Golden Nebula Award impact Albert Sidney Lane's career?**  
award

**What type of books does Ursula Schmidt write?** Ursula Schmidt writes  
fiction books.

## 2 Q 1.2 : With RAG

### 2.1 A

**What notable award has Anara Yusifova won for her work?** The Man  
Booker International Prize

**How does Nakamura's book 'A Piece of Me' differ from his other works?**  
Unlike his other works such as 'A Piece of Me' and 'The Man in the  
Mirror', 'All My Life' focuses on more personal intros

**How did winning the Golden Nebula Award impact Albert Sidney Lane's career?**  
increased his recognition globally and his works gained a larger read-  
ership

**What type of books does Ursula Schmidt write?** female empowerment

### 2.2 B

The approach seems quite effective. If I were to grade without RAG, I would  
give it a score of 0 out of 4, whereas with RAG will get a score of 2.5 out of  
4.

## 3 Q 1.3 : Top-N RAG

### 3.1 A : LLMs as List-wise Reranker

**Advantage** Better performance than cross-encoders.

**Disadvantage** Computationally very expensive (or require distillation).

### 3.2 B: Effect of Shuffling

**No shuffling** Gets 2 out of 4 right.

Answers are as follows:

**Query 0** (empty string)

**Query 1** Nakamura delves more into the intricacies of personal identity than his other works, exploring the edges of oneself when immersed in societal pressures and love, set

**Query 2** Albert Sidney Lane (born September 6, 1933, on the Lower East Side of New York City) is a former television executive, radio executive and writer.

**Query 3** Chick Lit

**Shuffling** Gets 0.5 out of 4.

Answers are as follows:

**Query 0** National Medal of Arts

**Query 1** it is important to note that the question is invalid

**Query 2** increase his recognition globally

**Query 3** (empty string)