



YOUTUBE ASSISTANT



OUR TEAM

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INTRODUCTION

A user friendly chatbot enhancing YouTube interaction

Key Features:

- Ask questions and get instant answers
- Generate question–answer pairs
- Summarize prompts

Why it matters?

Seamless, interactive experience for creators and viewers

PROBLEM STATEMENT

- Educational Barriers: Students struggle to extract clear, concise answers from educational YouTube videos.
- Children's Comprehension: Young learners find it hard to understand or summarize complex stories in videos.
- Limited Interactivity: Current platforms lack tools for kids to ask questions or engage with learning content.
- Teacher & Parent Challenges: Educators and parents need efficient ways to support children's learning and story retention.

Our chatbot addresses these challenges with a user friendly, interactive solution!

PROJECT METHODOLOGY

1

Summarization Model

2

Q & A Generation Model

3

Answer Questions Model

SUMMARIZATION MODEL

-	Paper Results			Implemented Results		
-	ROUGE-1	ROUGE-2	ROUGE-3	ROUGE-1	ROUGE-2	ROUGE-3
F1	0.313	0.193	0.262	0.3378	0.1435	0.2429
<u>Percision</u>	0.388	0.275	0.289	0.2650	0.1115	0.1899
Recall	0.324	0.132	0.199	0.4931	0.2140	0.3565

AI Chatbot

Summarize

Make Q&A

Make Answer

<https://www.youtube.com/watch?v=5Z772W7HMLQ&pp=ygULc2hvcnQgc3Rvcnk%3D>

waiting for summarize .



Type your message...



Send

Q & A GENERATION MODEL

-	Paper Results		Implemented Results
-	LSTM	BERT	Mistral
Cosine Similarity	0.22	0.55	0.97

AI Chatbot

Summarize

Make Q&A

Make Answer

Success doesn't come overnight. It's the result of hard work, perseverance, learning, studying, sacrifice, and most of all, love for what you're doing. You have to believe in yourself even when no one else does. Every failure is a lesson, and every challenge is an opportunity. The ones who make it are not necessarily the smartest or the most talented, but the ones who never gave up.

Waiting for qna .



Type your message...

Send

ANSWER QUESTIONS MODEL

-	Paper Results		Implemented Results
-	LSTM	BERT	Mistral
Cosine Similarity	0.22	0.55	0.3112

AI Chatbot

Summarize

Make Q&A

Make Answer

https://www.youtube.com/watch?v=5Z772W7HMLQ&pp=ygULc2hvcnQgc3Rvcnk%3D

Please enter your question.



what is hones



Submit Question

REPOSITORY STRUCTURE

```
├── data/  
│   ├── raw/  
│   └── processed/  
├── models/  
├── notebooks/  
├── src/  
│   ├── __init__.py  
│   ├── data_processing.py  
│   ├── model.py  
│   └── train.py  
├── tests/  
│   ├── test_data_processing.py  
│   └── test_model.py  
├── README.md  
└── requirements.txt
```



Q & A SESSION





THANK
YOU