

# **Long stories, short summaries**

**—getting to the main point without the extra details.**

**TEAM ROZHOK**

**TEAM NO. 22**

# MOTIVATION

- Everyone doesn't like reading lengthy novels.
- Reading books, especially lengthy novels with multiple parts, takes a lot of time to complete.
- While reading novel books, understanding meanings of words makes hard for reading.
- To address this issue's, we decided to create a summary generator that can analyze a novel and produce a simple summary of the book.



# PROBLEM STATEMENT

## AUTOMATED BOOK SUMMARY GENERATOR FOR NOVELS

### Introduction to the Project:

- Summarizing lengthy novels can be a daunting task for readers, especially students and researchers.
- An automated NLP-based summary generator for novels and will help users extract key information and themes efficiently.

### Why Automated Summarization for Novels:

- Saves time by providing concise summaries for Novels.
- Supports learning by distilling complex concepts and narratives into simpler forms.
- Useful for students, researchers, and casual readers who want to quickly grasp key takeaways from dense texts.

# PROPOSED PIPELINE

**Data Collection**

**Text Preprocessing**

**Model Selection**

**Deployment.**

**Evaluation &  
Feedback**

**Fine-tuning**

# TIMELINE

## (Week 1-2): Data Collection and Preprocessing

- Collect novels and textbooks datasets from public sources or create custom corpora.
- Clean and split text data, preparing it for model training.

## (Week 3-4): Model Fine-Tuning

- Fine-tune a pre-trained NLP model using the novel and textbook datasets.
- Experiment with different hyperparameters and settings to improve the model's performance on both types of content.

## (Week 5-6): Testing and Evaluation

- Evaluate generated summaries using metrics like ROUGE and BLEU scores.
- Incorporate human feedback for both novels and textbooks to assess readability, coherence, and content retention.

## (Week 7-8): Final Model Adjustments and Deployment

- Final adjustments to the model based on feedback and performance.
- Deploy the model via an interface (web app or API) for user testing and feedback collection.

# EXPECTED OUTCOME

## **Summaries for Novels:**

- Clear summaries highlighting major plot points, character arcs, and themes.
- Simplified versions of complex stories, making it easier for readers to understand key narrative elements.
- It reduces the complex words into simpler ones.

## **User Benefits:**

- Faster comprehension of Novels.
- Especially useful for students preparing for exams, researchers looking for quick insights, or readers exploring new novels.
- Saving time for User/Readers by reducing parts of Novels into small Summary.

# APPLICATIONS

## Educational Use:

- Automated summaries can support students by providing quick overviews of textbooks/Novels, helping them study efficiently.
- Summaries can serve as supplementary material for educators to quickly cover key points in lessons.

## Literary Platforms:

- Integration with digital libraries or e-book readers, where users can read summaries before diving into the full novel or textbook.
- Assists in book discovery, giving users a glimpse into the content of novels before they decide to read the full text.

## AI Assistants:

- Integration with virtual assistants like Alexa or Google Assistant, allowing users to request summaries of novels or textbooks via voice commands.



# CONCLUSION

- Summarizing novels presents distinct challenges, but with the right NLP techniques, we can develop a tool that caters to both.
- Our project aims to provide clear, concise summaries that cater to both casual readers of novels.
- By leveraging state-of-the-art NLP models, we aim to build a solution that simplifies reading and learning, empowering users to access essential information quickly and easily



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