AUTOMATIC SCRIPT GENERATION USING DEEP LEARNING

Project Description Presentation

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Idea

Automatic Text Generation System
Generation of a new text (article/story) based on a series of given texts.

Related Work
- Benjamin – AI trained on Science fiction screenplay (Sunspring movie)
- Google’s BERT

Bigger Picture
- Better search engine
- Story, jokes, comic writing
- Better prediction as to what user needs
- Speedy delivery of content
Problem

"Well, I have to go to the skull"
"he is standing in the stars and sitting on the floor"
- Benjamin

Connection between sentences???
Repetition of words!!
## Proposed Work

### Goal

**Target**
Build and enable an AI agent such that it learns a piece of script and automatically generates text based on appropriate context.

### Specifications

**Data Source**
The Office TV Series/ Friends TV Series

**Algorithm**
LSTM

**Measure Success**
1. Automatic machine calculated metrics - Bleu Score
2. Human Survey

**Comparison**
1. Google’s BERT algorithm
2. Research papers &
3. GitHub implementations for similar project or datasets
<table>
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<tr>
<th>Milestones</th>
<th>Week 4</th>
<th>Week 8</th>
<th>Week 12</th>
<th>Final</th>
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<tbody>
<tr>
<td>Research</td>
<td>Research</td>
<td>Data pre-processing</td>
<td>Test the model</td>
<td>Report</td>
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<tr>
<td>Finalize data source</td>
<td>Finalize data source</td>
<td>Train the model</td>
<td>Build API to store output</td>
<td>Presentation</td>
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<tr>
<td>Design solution framework</td>
<td>Design solution framework</td>
<td>Final model is built</td>
<td>Human Survey</td>
<td>Poster</td>
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<tr>
<td>Backend analytical data is created</td>
<td>Backend analytical data is created</td>
<td>Final model is built</td>
<td>Final API is ready, and model is tested</td>
<td>Ready to go</td>
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References

https://pdfs.semanticscholar.org/c51d/13034b2df47dae8f33bd0efad996de99ed4c.pdf
https://www.youtube.com/watch?v=LY7x2Ihqjmc
Thank You

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