# Youtube Popular Travel Video Title Generator

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# Background

• Content Creators want to optimize their video view counts. In order to do so, it is important to have a Video title that resonates with viewers.

 Video titles are typically chosen manually. Can we build a predictive model to generate video titles from a seed word?







#### Video Titles of Popular Travel Videos Obtained from Youtube API

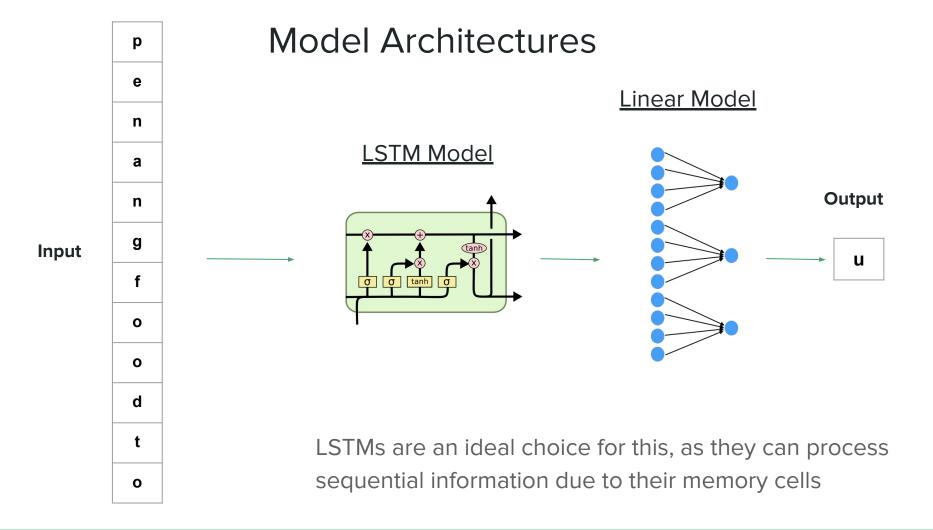
10 Best Places to Visit in Malaysia - Travel Video
How to Spend 14 Days in Japan - A Japan Travel Itinerary
Exploring Penang (Georgetown): Things To Do in One Day
Mumbai Places to visit   Mumbai Tour Plan & Mumbai Tour Budget   Mumbai Travel Guide
Bali Travel Guide - How to travel Bali for First-timers

- What text patterns are common in popular Youtube travel video titles?
- Can a <u>deep learning model help us generate</u> these titles for future videos?

### **Data Processing**

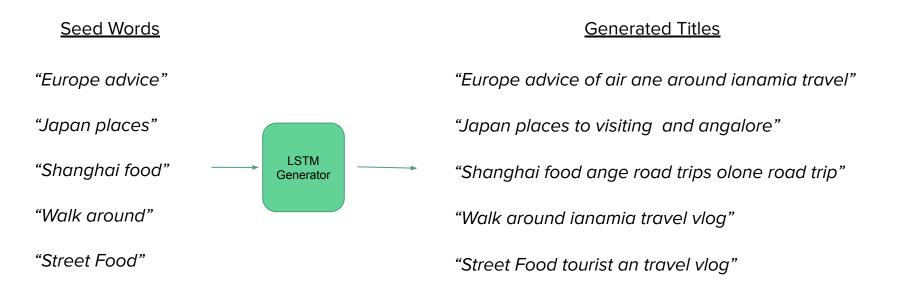
<u>Input Data</u>												<u>O</u>	<u>Output Data</u>		
	Р	E	N	А	N	G	F	0	0	D	Т		0		
Р	Е	N	А	N	G	F	0	0	D	Т	0		U		
E	N	А	N	G	F	0	0	D	Т	0	U		R		

In order to create data for LSTM, sequences were created with fixed length, and by sliding the text



## Let's try the Generator in Action:

Youtube creators start off with some seed text, and want to generate a good title. Let's see it action:



There is some bits of logic in our output, but clearly there's a lot of room for improvement!

# Next Steps

 Improve the model architecture and data selection/preparation for this current model

Implement word predictions rather than character predictions

• Implement **bidirectional LSTM** to generate text in both directions