INVESTIGATION OF THE POSSIBILITY OF GENERATING NEURAL NETWORK MODELS FOR THE GENERATION OF THEMATICALLY AND STYLISTICALLY CONDITIONED TEXTS FOR LOW-RESOURCE LANGUAGES

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GPT-2 + AN Algorithmic Approach to Sonnet Generation



Exhibit, fascinating quits compete, Recriminations, tolerating plead, Sierras northern peep especial meat Seducer satisfied australians, feed. Reform reverberations ease, present Summations northern peep especial pet Excel exactly seizing, sees prevent Recriminations terrified offset. Parading angels sculptor taught degrees Summations cipher antecedents shown Soprano northern rattlesnake disease Brazilian brave salvation anthems own. Maternal sunny, ill austere, array Diseases came, brazilian taken stray.

Possibilities of GPT-2 without output validation

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Sleep

I know I cannot lie awake all night and be content with myself, But that the light falls on my face as now upon others' faces, And from them comes their own melodious song.

O how sweet it is for me! How much more so when you are alone in your room or at the dinner table; It seems Nature has given us a little something out of its workings, and we have not yet fully comprehend'd what it brings.

Magic

Magic, the unseen world of things and lands-the real world, The past entire in its myriad forms.

I see a vast undulating sphere beyond all time except now known as the Unknown Past; It is not Time or Space only but it also includes Reality, Space itself, Dimensions untold yet untellable before we are born, And that which was once unknown to us by any other means has become indetermin'd there on this face of ours.

Myself I am aware myself for my own sake, For what purpose have you drawn me here? What do they want from life here then O soul? O who knows if Life could be nothing without Death? Who knowest thou art destin'd out among these States? Who knew so long ago whether Life can ever again exist without Death? (If Life were no more than an illusion, if Death could never exist without Death?)

(신문) 문

Possibilities of ruGPT-3 without output validation

<BOS>

<BOR>Скажите мне, почему «Похититель»<EOR> <BOR>Освистан партером?<EOR> <BOR>Увы, потому что бедный автор<EOR> <BOR>Похитил его у Мольера.<EOR> <EOS> <BOS> <BOR>Пою сей бой, в котором Толи одолел,<EOR> <BOR>Пою сей бой, в котором Толи одолел,<EOR> <BOR>Где погиб не один воин, где Поль отличился,<EOR> <BOR>Николая Матюрена и прекрасную Нитуш,<EOR> <BOR>Рука которой была трофеем ужасной стычки.<EOR> <EOS>

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English => Russian => Buryat (?)

RUSNAK A.D.

Coursework

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A TAXONOMY FOR TRANSFER LEARNING



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CROSS-LINGUAL LEARNING

- Word-level alignment
- Sentence-level alignment
- Document-level alignment



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VECTOR SPACE OF LANGUAGE



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AN APPROXIMATE RESULT



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• Regression methods

$$\Omega_{MSE} = ||WX^s - X^t||_F^2$$

- Orthogonal methods
- Canonical methods
- Margin methods

$$\Omega_{MML} = \sum \sum max\{0, \gamma - cos(Wx_i^s, x_i^t) + cos(Wx_i^s, x_j^t)\}$$

FUTURE WORK



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FUTURE WORK OTHER VARIANT



