ULTRA

by

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To my selfless friends ¡¿ who helped me stay on track and assisted me in many ways towards the completion of my thesis. And to my parents who gave me financial stability so that I never had to worry about anything but my thesis.

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ABSTRACT

ULTRA

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Supervising Professor: Dr.

Several combinations of visual ...

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INTRODUCTION

CHAPTER 2

Related Works

Earlier works.....achieved from addressing multiple lines of attentiveness could certainly provide better captions.

CHAPTER 3

Method

$$\alpha = softmax(f^t) \tag{3.1}$$

$$\hat{v}^t = \sum_{s=1}^{k} \alpha_s^t V_s \tag{3.2}$$

3.0.1 CTX_latemb Model

This is the first variation of the baseline where $\odot$ stands for element-wise multiplication, $\bar{V}$ is from Eq. **??**, $\hat{v}$ from Eq.

CHAPTER 4

Analysis

4.0.1 Qualitative Analysis

4.0.1.1 Embedding Analysis

verbs (Table 4.1).

Word	N_1	N_2	N_3	N_4	N_5
cat	a	of	on	with	in

Table 4.1: Five nearest

CHAPTER 5

Results

5.0.0.1 Resnet-101 Features

To demonstrate the wide applicability of our approach we use...

CHAPTER 6

Conclusion

6.1 Conclusion

6.2 Future Work

Our future work will focus on

BIOGRAPHICAL STATEMENT

Ankit Khare was born in Bhopal, M.P., India in 1991. He received his B.S. degree from ¡¿, India, in 2014, his M.S. degree from The University of Texas at Arlington in 2019 all in Computer Science. From 2014 to 2016, he was with ¡¿., as a ¡¿ . His current research interest is in the area of Computer Vision and Natural Language Processing using Deep Neural Networks.