Benchmarking Robustness of Adaptation Methods on Pre-trained Vision-Language Models (Supplementary)

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6 1 Corruption Details

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1.1 Image Corruption Methods

- We have incorporated 20 image corruption methods (Fig. 1) following [6, 2, 15] which can be categorized into 5 categories **noise**, **blur**, **weather**, **digital**, and **extra**. We also introduce 5 levels of severity (Fig. 2) to image corruption methods except for *blank* corruption.
- Noise There are 4 different noises used in this study, namely *Impulse*, *Gaussian*, *Shot*, and *Speckle*. *Impulse noise* mimics the corruption caused by bit errors by introducing a mixture of salt and pepper noise, with varying intensities such as 0.03, 0.06, 0.09, 0.17, and 0.27. *Gaussian noise* simulates corruptions due to low-lighting conditions by pixel value normalization and normal noise addition. The intensity of this noise is scaled according to severity, with values of 0.08, 0.12, 0.18, 0.26, and 0.38. *Shot noise* simulates electronic noise caused by discrete light and is also called Poisson noise. *Speckle noise* is an additive noise where larger noise will be added if the original pixel value is larger.
- Blur Zoom blur is observed when the camera swiftly moves toward an object. It blurs toward the center of the frame. Defocus blur occurs when the image is out of focus and its severity is defined by the disk radius convolved over the image ranging from (3,0.1), (4,0.5), (6,0.5), (8,0.5), (10,0.5).

 Motion blur occurs when the camera is moving quickly. The blurring effect is created by a kernel with different radius and sigma ranging from (10,3), (15,5), (15,8), (15,12), (20,15). Frosted Glass blur occurs when the glass of windows or panels frosts. Gaussian blur generates blurred pixels by a weighted average of its neighbors. The farther the neighbors are, the lower the weight in the average is.
- Digital JPEG is a lossy image compression format that converts the original picture to JPEG format with quality ranging from 25, 18, 15, 10, 7 given different severity. Contrast simulates corruptions caused by the lighting conditions and object's color. Elastic stretches small image regions for stretching effects. Spatter appears when the lens is occluded by rain or mud. Pixelate transforms the original images into a small number of large pixels.
- Weather Snow mimics the visual obstruction caused by precipitation. Frost occurs when lenses are covered by ice crystals. Fog obscures the object and is rendered by the diamond-square algorithm.

 Brightness adds a bright effect to the image simulating daylight.
- **Extra** we introduce a new corruption method called *blank* that sets all pixel values to 255, i.e. turning the original image into a blank picture.

1.2 Text Corruption Methods

- We have included 35 text corruptions methods following [19, 15, 2] which corrupt on 3 levels (e.g. character, word, and sentence level) and can be categorized into 3 main categories, 6 sub-categories.
- Character Modification. Character modification simulates common mistakes during typing and corrupts the text on a character level and contains 9 methods, namely OCR, Punct, Typos, Keyboard, Spelling Error, char random insert, char random replace, char random swap, char random delete. OCR replaces a character based on common Optical Character Recognition (OCR) errors. Keyboard substitutes original characters based on keyboard distance.
- Text Style Transformation. Methods in the *text style* category modify the text on a sentence level and transform the sentence style to a target one, such as turning the original sentence to *passive*, formal, causual, to double negative, and changing the *tense*.

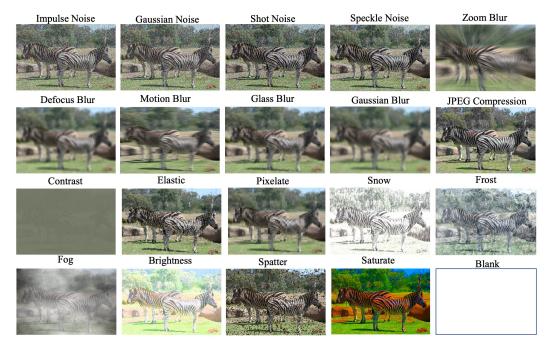
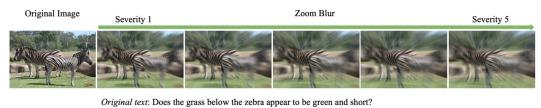


Figure 1: We introduce 20 corruption methods to image data following the methods in [6]. Except for the blank corruption, each type of corruption has five levels of severity. In total, there are 96 different corruptions, as shown in Appendix 1



Keyboard: Doeq the geass belo! the zebra appear to be green amd short/
OCR: Does the gkass below the zebka appear to 6e green and shor!?
Random word insert: Does [UNK] the [UNK] grass below [UNK] the zebra appear to be green and short?

Figure 2: Examples of image and text corruptions. The top row shows an original image from GQA and images corrupted by *zoom blur* with 5 levels of severity. The second row presents text corruptions on the original texts where the red sign indicates the corrupted parts. More examples are shown in supplementary material.

- 57 **Text Addition.** Text addition inserts additional words to the original text. InsertAdv adds an adverb
- before each verb. AppendIrr adds irrelevant phrases to the original texts. Random Insert randomly
- inserts token [UNK] to the original texts.
- 60 **Text Drop based on POS.** Text drop transforms the text on a word level based on POS tagging
- 61 [19]. There are methods of dropping nouns (*DropNN*), verbs (*DropVB*), dropping both nouns and
- verbs (Drop VB & NN), dropping random nous and verbs (Drop Rand NN, Drop Rand VB), keeping
- only nouns (Only NN), keeping only verbs (Only VB), keeping both (Only NN & VB).
- 64 **Text Drop based on Position.** According to the word position, there are methods of dropping the
- 65 first (*Drop First*), dropping the last (*Drop Last*), dropping both the first and the last (*Drop First and*
- 66 Last), shuffling word order (Shuffle Order), and randomly removing words (Random Delete).
- 67 **Text Swap.** Under the category of *text swap*, we can replace words randomly or with synonyms
- by word embedding (SwapSyn Word Embd) and WordNet [14] (SwapSyn WordNet). We also deploy

Table 1: Image Corruption Methods

Category	Corruption Method	Severity
	Impulse	5
Noise Blur Digital	Gaussian	5
Noise	Shot	5
	Impulse	5
Noise Blur	Zoom	5
	Defocus	5
	Motion	5
	Frosted Glass	
	Gaussian Blur	5
Digital	JPEG	5
	Contrast	5
	Elastic	5
Digital	Saturate	5
	Spatter	5
	Pixelate	5
	Snow	5
Weather	Frost	5
	Fog	5
		5
Extra	Blank	1
5 Category	20 Methods	96 Severity

- back translation (*Back Trans*) from [19], which first translates English into French and then translates
 it back to English. *Randwom Swap* randomly swaps words position.
- 71 In addition to the above corruptions, Qiu et al. proposed in [15] that we should ensure the corrupted
- text has the same semantics as the original one to make sure the image-text pairs remain meaningful.
- 73 We follow this setting and use the same fidelity guarantee mechanism as [15].

74 **2 Model Implementations**

2.1 CLIP-BART/T5

CLIP-BART/T5 [17], a combination of CLIP and BART/T5, follows VL-T5 [4] which unifies VL tasks to a text-generation problem. Specifically, given a pair of an image x^I and a sentence x^S , e.g. a picture and corresponding question texts in VQA, as the input to the model, CLIP-BART/T5 aims to maximize the agreement between the prediction and text label of M tokens $\mathbf{y}=(y_1,y_2,\ldots,y_M)$. The primary generative model is an encoder-decoder language model, parameterized by θ^L . Visual representation from input images is extracted from a CLIP and a visual projection layer, parameterized by θ^V and $\theta^{V \to L}$ respectively. The concatenation of visual representation and sentence representation is fed into the encoder-decoder language model. The training goal is to minimize the cross-entropy loss [17]:

$$l\left(\boldsymbol{x}^{I}, \boldsymbol{x}^{S}, \boldsymbol{y}; \theta^{L}, \theta^{V}, \theta^{V \to L}\right)$$

$$= CE\left(f_{\theta^{L}}\left(\boldsymbol{x}^{V \to L}, \boldsymbol{x}^{S}\right), \boldsymbol{y}\right)$$

$$= -\sum_{i=1}^{M} y_{i} \log\left(f_{\theta^{L}}\left(\boldsymbol{x}^{V \to L}, \boldsymbol{x}^{S}\right)_{i}\right),$$
(1)

where f_{θ} means a function parameterized by θ , $x^{V \to L}$ is the projected visual representation.

Table 2: Text Corruption Methods

Category	Sub Category	Level	Corruption Method	Severity
		character	OCR	5
		character	Punct	1
		character	Typos	5
		character	Keyboard	5
	Char Modification	character	Spelling Error	5
		character character rypo character rypo character rypo character rypo character charac	char random insert	5
	Char Modification Text Style Text Addition Drop Text based on POS tag Positional Drop Text Swap	character	char random replace	5
Char Modification Char Modific		character	char random swap	5
		character	char random delete	5
Natural		sentence	Passive	1
		sentence	Tense	1
	Tout Style	sentence	Formal	1
	iexi style	sentence	Casual	1
		sentence	Active	1
		sentence	Double Neg	1
		word	InsertAdv	1
	Text Addition	word	Appendlrr	1
		word	Random Insert	5
		word	Drop NN	1
		word	Drop Rand NN	1
		word	DropVB	1
	D Tt bd DOC 4	word	Drop VB & NN	1
	Drop Text based on POS tag	word	Only NN	1
		word	Only VB	1
Synthetic		word	Only NN & VB	1
=		word	Drop Rand VB	1
•		word	Drop First	1
		word	Drop Last	1
	Positional Drop	word	Drop First and Last	1
	_	sent	Shuffle Order	1
		word	Random Delete	5
		word	SwapSyn Word Embd	5
	Toyt Cyyon	word	SwapSyn WordNet	5
Maahina	IEXL SWAD	centence	Back Trans	1
Machine	reat 8 wap	SCIICITC	Duck Huns	1
Machine	Text 5 wap		Random Swap	5

The unified structure is beneficial to multi-task training where a universal dataset \mathcal{D} from N VL datasets is constructed and used to train the VL model. Under such a scenario, the parameters are optimized by minimizing the averaging loss on \mathcal{D} [17]:

$$\mathcal{L}\left(\mathcal{D}; \boldsymbol{\theta}^{L}, \boldsymbol{\theta}^{V}, \boldsymbol{\theta}^{V \to L}\right)$$

$$= \frac{1}{|\mathcal{D}|} \sum_{(\boldsymbol{x}^{I}, \boldsymbol{x}^{S}, \boldsymbol{y}) \in \mathcal{D}} l\left(\boldsymbol{x}^{I}, \boldsymbol{x}^{S}, \boldsymbol{y}; \boldsymbol{\theta}^{L}, \boldsymbol{\theta}^{V}, \boldsymbol{\theta}^{V \to L}\right)$$
(2)

2.2 Adaptation Methods

Full fine-tuning directly updates the whole θ on \mathcal{D} and becomes prohibitive due to the rapidly growing model size. For instance, simply loading a GPT-3 language model with 175B parameters as the VL model backbone would require 700GB of memory ³. Therefore, the following more efficient

 $^{3(175 \}times 10^9) \times 4(\text{bytes}) \times 10^{-9} = 700\text{GB}$

Table 3: We deploy eleven distinct adaptation methods in total.

Type	Method
Full Fine-tuning	Full Fine-tuning
Adapter [8]	Single Adapter Half-shared Adapters Multiple Adapters
Compacter [11]	Single Compacter Multiple Compacter
Hyperformer [13]	Hyperformer
LoRA [9]	Single LoRA Multiple LoRA
Soft Prompt [12]	Single Prompt Multiple Prompts

adaptation methods are developed to achieve comparable performance while optimizing only a few
 parameters.

Prompt-based adaptation modifies the input \mathbf{x} to the model F by either concatenating a trainable prefix (Soft Prompt) [12] or a manually designed prefix [1]. For the given input $\mathbf{x} = \{x_1, \dots, x_n\}$ with n tokens, the pre-trained model will first form an embedding matrix $\mathbf{X} \in \mathbb{R}^{n \times d}$ where d is the dimension of the embedding space. Soft-prompts [12] are then represented as a learnable parameter $\mathbf{P} \in \mathbb{R}^{p \times d}$ where p is the length of the prompt. Next, \mathbf{P} is concatenated with the original embedded input \mathbf{X} to form a new single matrix defined as $[\mathbf{P}; \mathbf{X}] \in \mathbb{R}^{(p+n) \times d}$. During adaptation, the model is trained to maximize the probability of the desired output while only updating \mathbf{P} .

LoRA [9] also freezes the pre-trained model parameters θ , but it utilizes low-rank decomposition matrices to update gradients. For an intermediate model parameter $\theta_0 \in \mathbb{R}^{d \times k}$, which can be the parameters from one self-attention module in the transformer architecture, its update is represented by a low-rank decomposition as shown in Formula 3. θ_0 is frozen, whereas B and A contain trainable parameters while adapting.

$$\theta_0 + \Delta \theta = \theta_0 + BA, B \in \mathbb{R}^{d \times r}, A \in \mathbb{R}^{r \times k}, r \ll min(d, k).$$
 (3)

Adapter-based adaptation inserts small modules between parameters in $\boldsymbol{\theta}$ and modifies the intermediate learning process. Variants of adapter-based methods differ in the insertion manner. Adapters[8] consists of a pair of downsampling and upsampling layers and a residual connection. Suppose the original input to an intermediate layer θ_0 in model $\boldsymbol{\theta}$ is $\mathbf{x}_0 \in \mathbb{R}^{d_0}$, adapters insert a downsampling layer $\boldsymbol{\theta}^D \in \mathbb{R}^{d_0 \times d_1}$ and an upsampling layer $\boldsymbol{\theta}^U \in \mathbb{R}^{d_1 \times d_0}$ where d_0, d_1 are dimensions of the hidden embeddings. The output after injecting adapters is defined in Formula 4 where $\sigma(\cdot)$ is an activation function such as GELU [7].

$$h = f_{\theta^U} \left(\sigma \left(f_{\theta^D}(\mathbf{x}_0) \right) \right) + \mathbf{x}_0 \tag{4}$$

Compacter [11] is based on the mechanism of adapters [8], but it utilizes matrix decomposition and parameter sharing to further reduce redundant parameters in adapters. It introduces parameterized hypercomplex multiplication (PHM) layers (Formula 5), which decompose the layer in the adapter by Kronecker products. Compacter also shares the parameter of A_i across all layers and decomposes B_i even further with low-rank decomposition. However, as found in [17], such sharing and further decomposition severely decreases the VL performance. In our study, we only use PHM layers.

$$\theta^D = \sum_{i=1}^k A_i \otimes B_i, A_i \in \mathbb{R}^{k \times k}, B_i \in \mathbb{R}^{\frac{d_0}{k} \times \frac{d_1}{k}}$$
 (5)

Hyperformer [13] also aims to reduce redundant parameters in adapters. It relies on a hypernetwork that is shared across tasks to generate the weights in adapters given a task index and a

layer index. The hyper-network maintains learnable embeddings for each task and each layer. For N_T tasks and N_L layers, the d_e -dimensional embeddings can be denoted as $\boldsymbol{t}_1,\dots,\boldsymbol{t}_{N_T}\in\mathbb{R}^{d_e}$; $\boldsymbol{t}_1,\dots,\boldsymbol{t}_{N_L}\in\mathbb{R}^{d_e}$. The Hyperformer consists of a task projector $\theta^T\in\mathbb{R}^{(d_e+d_e)\times d_p}$ and a hypernetwork $\theta^H\in\mathbb{R}^{d_p\times(d_0\times d_1+d_1\times d_0)}$, and generates an adapter's weights in the i^{th} layer for the j^{th} task following Formula 6.

$$\left[\theta^{D}, \theta^{U}\right] = f_{\theta^{H}}\left(f_{\theta^{T}}\left(\left[\boldsymbol{t}_{j}, \boldsymbol{l}_{i}\right]\right)\right) \tag{6}$$

Adaptation shared over tasks is inspired by Hyperformer and proposed in [17] which aims to exploit 127 similar information shared across multiple tasks and to reduce redundant parameters. For vanilla 128 adapters in a multi-task setting with N_T tasks, the collection of all inserted adapter modules can be 129 denoted as $\Theta = \{\Theta^D, \Theta^U\}$ where Θ^D (Θ^U) stands for the subset of downsampling (upsampling) 130 layers in adapters. The straightforward application is to train the adaptation modules per task, so 131 we have independent $\{\Theta_i^D, \Theta_i^U\}$ for the i^{th} task, dubbed as **Multiple Adapters**. The same goes for 132 other adaptation methods. By training one prompt, low-rank weights, and compacter layer for each 133 task, we obtain Multiple Prompts, Multiple LoRA, and Multiple Compacter respectively. We can 134 also train only one set of adapter layers for all tasks, and we have **Single Adapter** where $\Theta_i^D = \Theta_i^D$ 135 and $\Theta_i^U = \Theta_i^U$, $i \neq j$. Also, if we use the same prompts, low-rank weights, and compacter layers, 136 we have Single Prompt, Single LoRA, and Single Compacter respectively. For adapters, we can 137 make parts of the weights shareable by making $\Theta_i^D = \Theta_i^U, i \neq j$ and. In this way, the task-specific 138 information of i^{th} can still be learned by the rest Θ_i^U . Such sharing mechanism is called **half-shared** 139 adapter. Lastly, Hyperformer already shares information from multiple tasks and therefore does not 140 have such extensions. 141

2.3 Training and Evaluation

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We follow the same experimental and hyperparameter settings as [17]. CLIP-ResNet101 is the 143 vision encoder that takes the resized 224×224 images as input. The 7×7 gird features in the 144 last convolutional layer are extracted as visual features and are downsampled to 6×6 by adaptive 145 maximum pooling. BART_{base} and T5_{base} are both studied in this work as encoder-decoder language 146 models. During training, AdamW is the optimizer along with a linear decay scheduler. Models are 147 trained for 20 epochs, and the learning rate increases from 0 to the highest learning rate in the first 148 2 epochs. Training batch sizes are set as 500 and 250 for CLIP-BART and CLIP-T5 respectively. 149 Models are trained in a multi-task setting where the training dataset includes all training split from 4 150 VL datasets. After training, we first evaluate the clean performance. Specifically, accuracy on the 151 Karpathy-test split is evaluated for VQAv2. For GQA, accuracy on the test-dev split is evaluated, 152 and accuracy on the test-P split is used for NLVR². In image captioning, we use CIDEr [18] on the 153 Karpathy-test split. Then, we evaluate the corrupted performance on the corresponding corrupted 154 test split from each dataset and calculate the relative robustness. All the training and evaluations are 155 conducted on LRZ AI Systems at the Leibniz Supercomputing Centre of the Bavarian Academy of 156 Sciences and Humanities. 157

158 3 Limitations

The limitations of this work mainly include 1) the adoption of simulated noise instead of real-world data due to the difficulty to obtain real-world corruptions, 2) the analysis is on a limited number of multimodal models due to the availability of usable code, model weights, and the massive experiments, 3) the experiments require heavy GPU usage to pre-train vision-language models.

4 Licensing

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All the models and datasets used in this study are publicly available. The code for model VL-T5(BART) and CLIP-T5(BART) have the MIT License and the code for Hyperformer and Soft Prompt has the Apache 2.0 License. Our benchmark datasets are built upon 4 well-known and public

Table 4: Relative robustness of adaptation methods based on CLIP-T5 against image (top) and text (bottom) corruptions.

Adaptation method	VÇ	QAv2	G	QA	NL	$\mathbf{V}\mathbf{R}^2$	COCO Caption		
Adaptation method	Acc (%)	RR (%)	Acc (%)	RR (%)	Acc (%)	RR (%)	CIDEr	RR (%)	
Full Fine-tuning	66.29	85.11±5.10	56.82	$87.48{\scriptstyle\pm0.04}$	74.06	$89.36{\scriptstyle\pm0.04}$	111.50	69.32±0.14	
Multiple Adapters	66.15	$85.45{\scriptstyle\pm4.84}$	55.66	$87.70_{\pm 0.04}$	51.94	-	112.15	$67.65{\scriptstyle\pm0.15}$	
Single Adapter	66.41	85.19 ± 5.16	55.90	78.57 ± 0.04	72.78	88.70 ± 0.05	111.70	$68.52{\scriptstyle\pm0.14}$	
Hyperformer	65.18	86.02 ± 4.87	54.65	$89.33 \scriptstyle{\pm 0.04}$	70.56	91.07 ± 0.05	110.65	70.48 \pm 0.13	
Multiple Compacters	65.50	85.88 ± 4.86	54.68	88.09 ± 0.04	52.63	_	113.20	67.96 ± 0.14	
Single Compacter	65.98	$85.56{\scriptstyle\pm5.07}$	55.33	$80.57{\scriptstyle\pm0.04}$	71.47	$90.04{\scriptstyle\pm0.04}$	111.61	$69.15{\scriptstyle\pm0.14}$	

Adaptation Method	V	QAv2	G	QA	\mathbf{NLVR}^2		
Adaptation Method	Acc (%)	RR (%)	Acc (%)	RR (%)	Acc (%)	RR (%)	
Full fine-tuning	66.29	72.52±25.29	56.82	64.27±25.75	74.06	87.67±10.74	
Multiple Adapters	66.15	76.68 \pm 21.21	55.66	62.33 ± 25.92	51.94	_	
Single Adapter	66.41	75.89 ± 21.20	55.90	63.30 ± 19.40	72.78	87.79 ± 10.68	
Hyperformer	65.18	$76.51{\scriptstyle\pm20.80}$	54.65	$66.96{\scriptstyle\pm24.43}$	70.56	89.12 ± 10.06	
Multiple Compacters	65.50	76.39 ± 21.14	54.68	67.66 ±22.69	52.63	_	
Single Compacter	65.98	$76.16{\scriptstyle\pm21.16}$	55.33	$64.19{\scriptstyle\pm20.22}$	71.47	$88.70{\scriptstyle\pm9.93}$	

available VL datasets, namely VQAv2 [5], GQA [10], NLVR² [16], and MSCOCO [3]. We also publicize our benchmark datasets, corruption codes, and benchmark codes under MIT License.

169 5 Impact

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From our understanding, there are no negative societal impacts of our study. This study aims to investigate the robustness of multimodal adaptation methods and facilitate future research and real-world applications.

6 Additional Analysis

174 6.1 BART vs. T5 language backbone

We compared the robustness of CLIP-BART and CLIP-T5 models in Table 5 to observe differences in 175 performance. Generally, adaptations from CLIP-BART showed better robustness on GQA, NLVR², 176 and COCO Caption against image and text corruptions. Specifically, all adaptation methods on CLIP-177 BART had higher robustness against text corruptions on the GQA dataset. For robustness against 178 image corruptions, all adaptation methods with CLIP-BART, except for multiple adapters, achieved 179 higher relative robustness scores. In contrast, CLIP-T5-based adaptations were more robust against 180 image corruptions on VQAv2, while CLIP-BART showed more robustness against text corruptions. 181 This may be due to the different language encoders used in BART and T5.Among all adaptation 182 methods, Hyperformer seems to be a good choice for CLIP-T5, as it achieved better robustness on 183 VQAv2, NLVR², and COCO Caption. A single adapter would likely be a more robust adaptation 184 method when combined with CLIP-BART, as it showed better robustness on all datasets and against 185 both types of corruption. 186

6.2 The Influence of Adaptation Hyperparameters on Robustness

To investigate the influence of parameter size on robustness, we conduct experiments on 6 adaptation methods, namely Single Prompt, Multiple Prompts, Single Adapter, Single Compacter, and Single LoRA, with various parameter sizes. For each setting, we adapt the model on multitask datasets given pre-trained CLIP and BART (T5) and test the relative robustness.

For prompt tuning, the prompt length p defined in Section 2.2 can be 20, 40, 60, and 80. The position of prompt embedding can be *front*, *middle*, and *back*. It specifies the prompt position in

Table 5: RR(%) of adaptation methods based on CLIP-BART and CLIP-T5 against image (up) and text (down) corruptions with severity 5. The better relative robustness values for each comparison pair are in bold.

Adaptation Mathad	VQ	Av2	GC	QA	NLV	$/\mathbf{R}^2$	COCO Caption		
Adaptation Method	BART	T5	BART	T5	BART	T5	BART	T5	
Full finetuning	84.86	85.11	89.20	87.48	90.34	89.36	68.40	69.32	
Multiple adapters	85.33	85.45	86.16	87.70	92.02	_	68.72	67.65	
Single adapter	85.76	85.19	82.49	78.57	90.04	88.70	68.68	68.52	
Hyperformer	85.38	86.02	90.05	89.33	90.13	91.07	68.74	70.48	
Multiple compacters	85.65	85.88	88.89	88.09	91.33	_	68.67	67.96	
Single compacter	85.47	85.56	82.62	80.57	92.04	90.04	69.92	69.15	

A damast an anath a d	VQ	Av2	G()A	$NLVR^2$		
Adaptation method	BART	T5	BART	T5	BART	T5	
Full Fine-tuning	73.65	72.52	66.92	64.27	87.06	87.67	
Multiple Adapters	76.62	76.68	66.93	62.33	90.14	_	
Single Adapter	77.64	75.89	67.47	63.30	88.49	87.79	
Hyperformer	75.06	76.51	70.30	66.96	87.27	89.12	
Multiple Compacters	77.10	76.39	67.39	67.66	90.00	_	
Single Compacter	77.17	76.16	67.90	64.19	90.10	88.7	

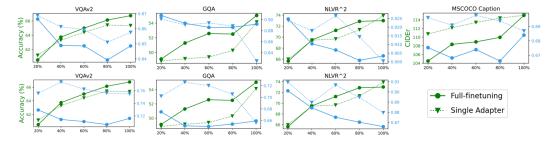


Figure 3: Performance and relative robustness of full-finetuning and single adapter on CLIP-BART given different size of adaptation dataset. The first row shows results given image corruptions and the second is from text corruptions. Green lines stand for performance in each task and the blue is robustness. X-axis shows the random subset ratio of training dataset during adaptation, ranging from 20% to 100%.

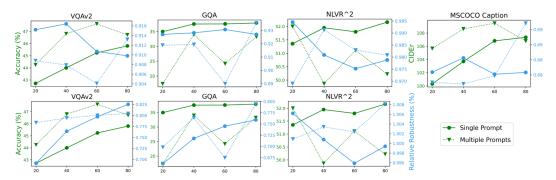


Figure 4: Performance and relative robustness from prompt adaptations with different prompt lengths on CLIP-BART. The top row shows the robustness against image corruptions and the bottom row is results against text corruptions. Blue lines stand for performance on each task and green lines represent relative robustness.

the concatenated input to the encoder-decoder generative model. For example, *front* position means that the prompt embedding is at the beginning of the concatenation; *middle* position means the concatenation starts with visual embedding, then prompt embedding and the textual embedding is at the end. We also choose different embedding dimensions for adapter-based methods. The dimension d_1 of adapter layers varies from $\{96, 64, 48, 24\}$. The dimension r of LoRA's low-rank decomposition layer can be $\{32, 64, 128, 256\}$

Prompt embedding length Prompt-based adaptation methods have attracted more attention because they remove the burden of tuning any parameters in the pre-trained model. We inspect their robustness given different embedding lengths and sharing settings. We adjust the soft prompt length added to the concatenated embeddings and evaluate the performance along with the relative robustness. The results conducted on CLIP-BART are shown in Figure 4. We could see a steady increase in the performance on four tasks with longer prompt lengths which proves that prompt methods perform better given more parameters. Regarding relative robustness, such a steady increase does not apply to all tasks and longer soft prompts do not ensure better relative robustness. For instance, the relative robustness of single prompt drops with the increase of prompt length on VQAv2. Its relative robustness keeps relatively the same on GQA and MSCOCO Caption given image corruptions. We could also notice that for text corruptions, prompt methods gain better robustness on VOAv2 and GOA.

Task-specific vs. Universal Prompt. We conduct experiments using both single prompt and multiple prompts where the first shares a universal prompt embedding across all tasks and the second utilizes a specific prompt for each task. The single prompt has better performance on GQA and NLVR² whereas multiple prompts show better performance on VQAv2 and MSCOCO Caption. We observe that with less prompt embedding, a universal prompt is more robust against image corruptions but given longer prompt embedding, task-specific prompts regain the robustness and surpass the universal prompt.

6.3 Additional Results

The relative robustness of adaptation methods based on CLIP-T5 is presented in Table 4. Figure 4 presents the performance and relative robustness of full-finetuning and single adapter on CLIP-BART given different sizes of adaptation datasets. Table 8 and 7 present the corruption results from each image corruption method and each text corruption category. Table 10 to Table 57 present detailed results on various severity levels.

Table 6: Relative robustness of adaptation methods based on CLIP-BART against image corruptions.

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Half-shared Adapters 65.2 54.94 \$4.79 \$5.94 \$8.2 \$48.42 \$7.88 56.5 53.8 \$4.8 \$4.87 \$7.8 \$5.94 \$8.5 \$4.8 \$4.8 \$7.8 \$9.5 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0
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Hyperformer 65.38 55.42 55.26 56.2 58.93 49.38 58.32 55.85 56.25 56.2 58.93 49.38 58.32 55.85 56.2 57.10 57.25 57.2 57.10 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2
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Multiple LoRA 65.44 55.13 55.16 55.92 58.31 49.01 57.89 56.37 53.04 56.91 60.77 50.83 54.78 52.18 54.47 58.83 53.44 53.4 56.28 61.39 55.48 0.848
Multiple LORA 05.44 05.44 05.45 05.13 05.15 05.15 05.83 49.01 07.85 05.57 05.85 05.85 05.87 05.17 05.17 05.18 05.85 05.18 05.85 05.18 05.85 05.18 05.85 05.18 05.85 05.18 05.85 05.18 05.85 05.8
Multiple Prompts 46.81 42.83 42.85 42.99 44.01 39.08 43.77 43.5 41.71 43.11 44.97 39.39 42.71 41.29 42.18 44.08 40.65 41.13 42.16 45.07 42.5 0.908

Table 7: Relative robustness of adaptation methods based on CLIP-BART against text corruptions grouped by corruption levels.

grouped by com	F							
Adaptation method	Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	Ave RR
Full Finetuning	55.04	23.47	0.426	37.9	0.689	52.91	0.961	0.669
Multiple Adapters	53.39	23.19	0.434	37.37	0.7	48.97	0.917	0.669
Half-shared Adapters	52.96	22.35	0.422	38.06	0.719	50.22	0.948	0.682
Single Adapter	54.14	24.11	0.445	38.54	0.712	48.18	0.89	0.675
Hyperformer	52.52	23.69	0.451	38.85	0.74	50.25	0.957	0.703
Multiple Compacters	52.75	22.8	0.432	37.21	0.705	49.13	0.931	0.674
Single Compacter	52.9	23.89	0.452	37.8	0.715	47.49	0.898	0.679
Multiple LoRA	52.05	22.79	0.438	37.74	0.725	48.72	0.936	0.688
Single LoRA	53.19	22.94	0.431	34.98	0.658	47.12	0.886	0.639
Single Prompt	37.54	21.98	0.586	26.94	0.718	36	0.959	0.725
Multiple Prompts	34.01	19.69	0.579	27.6	0.812	31.62	0.93	0.771
Adaptation method	Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	Ave RR
Full Finetuning	73.01	55	0.753	64.88	0.889	71.99	0.986	0.871
Multiple Adapters	69.41	53.54	0.771	64.66	0.932	69.12	0.996	0.901
Half-shared Adapters	70.03	53.53	0.764	64.47	0.921	69.02	0.986	0.892
Single Adapter	73.89	56.24	0.761	67.19	0.909	73.09	0.989	0.885
Hyperformer	72.21	54.24	0.751	64.59	0.894	71.02	0.984	0.873
Multiple Compacters	69.45	53.84	0.775	64.54	0.929	68.67	0.989	0.9
Single Compacter	69.94	55.07	0.787	64.65	0.924	69.4	0.992	0.901
Multiple LoRA	51.32	51.41	1.002	51.52	1.004	51.25	0.999	1.002
Single LoRA	73.58	55.13	0.749	66.22	0.9	72.67	0.988	0.876
Single Prompt	51.95	51.87	0.998	52.01	1.001	52.1	1.003	1.001
Multiple Prompts	49.87	50.1	1.005	50.1	1.005	49.84	0.999	1.004
Adaptation method	Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	Ave RR
Full Finetuning	66.75	32.33	0.484	51.99	0.779	64.68	0.969	0.736
Multiple Adapters	65.3	33.76	0.517	53.21	0.815	63.55	0.973	0.766
Half-shared Adapters	65.2	33.75	0.518	53.28	0.817	63.48	0.974	0.768
Single Adapter	65.35	33.65	0.515	54.42	0.833	63.83	0.977	0.776
Hyperformer	65.38	33.52	0.513	51.6	0.789	63.69	0.974	0.751
Multiple Compacters	64.91	33.63	0.518	53.38	0.822	63.27	0.975	0.771
Single Compacter	64.47	33.76	0.524	53.12	0.824	62.25	0.966	0.772
Multiple LoRA	65.44	33.51	0.512	50.53	0.772	63.66	0.973	0.74
Single LoRA	65.34	32.89	0.503	51.27	0.785	63.41	0.97	0.745
Single Prompt	44	28.89	0.657	33.49	0.761	42.75	0.972	0.77
Multiple Prompts	46.81	29.35	0.627	38.88	0.831	45.4	0.97	0.802

Table 8: Relative robustness of adaptation methods based on CLIP-BART against image corruptions.

11.12. 4.1	CI.		No	ise				Blur					Di	gital				W	/eather			DD (CL)
Adaptation method	Clean	Impulse	Gaussian	Shot	Speckle	Zoom	Defocus	Motion	Glass	Gaussian	JPEG	Contrast	Elastic	Pixelate	Spatter	Saturate	Snow	Frost	Fog	Brightness	Ave	RR (%)
Full Finetuning	111.5	79.113	79.032	82.265	91.788	37.158	85,321	75.387	65.115	81.871	98.817	61.11	69.818	62.23	73,373	97.049	71.716	70.632	84.015	102.756	77.29	0.693
Multiple Adapters	112.149	79.067	78,336	82.044	91.293	33.035	83.47	73,385	63.347	81.731	98.845	59.487	67.879	59.806	70.26	96.107	69.469	68 513	82.314	103.015	75.86	0.676
Single Adapter	111.7	78,788	79,632	81.986	91.411	37.009	83.256	74.122	64.263	80.347	98.008	60.239	68.099	60.312	71.794	96.896	70.457	70.364	83.999	103.175	76.53	0.685
Hyperformer	110.649	79.968	79.361	83.399	92.835	41.287	85,348	76,428	65,662	82.076	97.952	61.923	70.079	62 167	74 226	97 323	70.651	71.889	85 099	104.118	77.99	0.705
Single Compacter	111.608	79,424	78.576	83.25	91.25	36.829	83.726	75.171	65.19	80.959	98.517	61.199	70.609	60.431	73.608	97.211	71.876	71.582	83 624	103.316	77.18	0.692
Multiple Compacters	113.2	79.686	79.894	83.068	92.35	38.61	84.081	75.606	64.191	81.52	99.056	61.73	69.273	59.018	71.456	96.503	69.515	69.553	83.808	102.703	76.93	0.68
Adaptation method	Clean		Nois			-	ъ.	Blur	C1		med		Dig						eather	D 1 1 .	Ave	RR (%)
Full Finetuning Multiple Adapters Single Adapter Hyperformer Single Compacter		1	Gaussian	Shot	Speckle	Zoom	Defocus	Motion	Glass	Gaussian	JPEG	Contrast		Pixelate	Spatter	Saturate	Snow	Frost	Fog	Brightness		
	56.82	50.08	49.849	50.405	51.59	44.665	51.733	50.557	47.408	50.755	53.331	47.567	47.973	47.194	49.809	51.542	47.798	48.394	50.262	53.53	49.71	0.875
	55.66	49.412	49.507	49.905	51.511	44.188	50.04	48.903	46.478	49.316	52.131	46.375	46.852	46.748	48.489	51.073	47.122	47.925	49.141	52.353	48.81	0.877
	55.9	44.657	43.91	44.586	46.828	39.06	45.58	44.8	41.326	44.785	47.241	41.151	42.36	41.684	43.624	45.635	42.614	42.622	44.315	47.75	43.92	0.786
	54.65	49.539	49.292	49.491	50.787	44.101	49.936	50.207	46.247	49.618	52.282	46.868	46.995	46.875	48.386	50.668	47.178	47.758	48.728	52.576	48.82	0.893
	55.33	44.3	44.355	44.721	47.321	39.593	46.589	45.556	42.63	45.492	48.06	41.684	43.155	42.24	43.791	47.106	43.338	43.56	44.689	48.847	44.58	0.806
Multiple Compacters	54.68	48.704	48.545	49.141	50.31	43.163	49.682	49.547	45.913	48.593	51.36	45.834	46.311	45.429	47.496	50.167	47.066	47.368	49.277	51.288	48.17	0.881
			Nois	e				Blur					Dig	rital				w	eather			
Adaptation method	Clean	Impulse	Gaussian	Shot	Speckle	Zoom	Defocus	Motion	Glass	Gaussian	JPEG	Contrast	Elastic	Pixelate	Spatter	Saturate	Snow	Frost	Fog	Brightness	Ave	RR (%)
Full Finetuning	74.06	66.829	66.844	66.815	67.963	57.586	67.805	67.059	65.968	66.198	71.107	61.303	67.073	61.432	64.389	66.14	68.911	70.36	66.456	67.131	66.18	0.894
Multiple Adapters	51.94	50.007	50,409	49.806	50.538	49.835	50.553	50.395	50.237	50.022	53.064	49.333	50.696	49.519	50.251	50.452	49.835	52.591	51.414	52.117	50.58	0.974
Single Adapter	72.78	64.935	65.05	65.021	66,485	55.06	66.284	65.222	65.667	65.624	70.001	58.031	66.7	59.064	62.911	63.959	66.801	69.212	64.576	65.896	64.55	0.887
Hyperformer	70.56	65.222	65.05	64.863	65 997	55 634	65 925	65.265	63 987	65.136	69.241	59.567	65.911	58 418	63.026	63.413	66.083	67 891	64 719	65 566	64.26	0.911
Single Compacter	71.47	63.916	64 145	64 303	66.786	56.107	66.6	64.963	64.978	64.82	68.537	59.509	65.982	59.811	63.054	63.829	66.6	68 738	64.676	65 322	64.35	0.9
Multiple Compacters	52.63	49.447	49.218	49.39	49.677	49.103	49.663	50.05	49.447	49.49	51.658	48.959	50.395	49.318	49.476	49.419	50.639	52.131	50.208	50.179	49.89	0.948
			No	ica				Blur					Di	igital				W	/eather			
Adaptation method	Clean	Impulse	Gaussian		Speckle	Zoom	Defocus	Motion	Glass	Gaussian	JPEG	Contrast	Elastic	Pixelate	Spatter	Saturate	Snow	Frost	Fog	Brightness	Ave	RR (%)
Full Finetuning	66.29	55.83	56.08	57.13	59.83	49.35	58.93	57.06	53.91	57.92	62	50.96	55.85	53.08	54.57	54.33	57.32	62.33	55.74	59.76	56.42	0.851
Multiple Adapters	66.15	56.02	56.02	57.09	59.79	50.23	58.89	57.25	54.04	57.69	61.83	51.06	55.8	53.45	54.86	54.89	57.42	62.4	55.55	59.75	56.53	0.855
Single Adapter	66.41	56.48	56.4	57.21	59.94	49.58	59.16	57.21	54.04	57.96	61.9	50.97	55.63	52.94	54.49	54.5	57.55	62.74	55.98	60.24	56.57	0.852
Hyperformer	65.18	55.6	55.48	56.43	59.19	49.67	58.37	56.9	53.95	57.18	61.2	50.72	55.47	52.9	54.16	54.22	57.1	61.93	55.58	59.21	56.07	0.86
Single Compacter	65.98	55.93	55.97	57.1	59.57	49.43	59.11	56.82	53.99	57.76	61.81	50.72	55.73	52.89	54.16	55.07	57.3	62.53	55.91	59.21	56.45	0.856
Multiple Compacters	65.5	55.86	55.97	56.64	59.3	50.14	58.85	57.1	54.24	57.44	61.67	50.88	55.81	53.11	53.96	54.04	56.8	62.01	55.55	59.44	56.25	0.859

Table 9: Relative robustness of adaptation methods based on CLIP-T5 against text corruptions grouped by corruption levels.

Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	RR
56.82	21.13	0.372	38.23	0.673	53.54	0.942	0.643
55.66	20.43	0.367	35.82	0.644	52.07	0.936	0.623
55.9	23.99	0.429	36.69	0.656	47.77	0.855	0.633
54.65	22.69	0.415	38.19	0.699	51.89	0.949	0.67
55.33	23.5	0.425	36.88	0.667	48.64	0.879	0.642
54.68	24.28	0.444	38.14	0.698	51.99	0.951	0.677
Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	RR
74.06	56.18	0.759	66.37	0.896	73.2	0.988	0.877
51.94	51.09	0.984	51.78	0.997	51.92	1	0.994
72.78	54.78	0.753	65.69	0.903	71.53	0.983	0.878
70.56	54.83	0.777	64.46	0.914	69.75	0.989	0.891
71.47	55.78	0.78	64.64	0.904	70.63	0.988	0.887
52.63	52.67	1.001	52.58	0.999	52.69	1.001	1
Clean	Char-level	Char-level RR	Word-level	Word-level RR	Sentence-level	Sentence-level RR	RR
66.29	30.26	0.456	51.05	0.77	64.55	0.974	0.725
66.15	34.14	0.516	53.89	0.815	64.73	0.979	0.767
66.41	34.38	0.518	53.16	0.8	64.86	0.977	0.759
65.18	33.79	0.518	52.91	0.812	63.59	0.976	0.765
	34.1	0.517	53.18	0.806	64.4	0.976	0.762
	56.82 55.66 55.9 54.65 55.33 54.68 Clean 74.06 51.94 72.78 70.56 71.47 52.63 Clean 66.29 66.15 66.41	56.82 21.13 55.66 20.43 55.9 23.99 54.65 22.69 55.33 23.5 54.68 24.28 Clean Char-level 74.06 56.18 51.94 51.09 72.78 54.78 70.56 54.83 71.47 55.78 52.63 52.67 Clean Char-level 66.29 30.26 66.15 34.14 66.41 34.38 65.18 33.79	56.82 21.13 0.372 55.66 20.43 0.367 55.9 23.99 0.429 54.65 22.69 0.415 55.33 23.5 0.425 54.68 24.28 0.444 Clean Char-level Char-level RR 74.06 56.18 0.759 51.94 51.09 0.984 72.78 54.78 0.753 70.56 54.83 0.777 71.47 55.78 0.78 52.63 52.67 1.001 Clean Char-level Char-level RR 66.29 30.26 0.456 66.15 34.14 0.516 66.41 34.38 0.518 65.18 33.79 0.518	56.82 21.13 0.372 38.23 55.66 20.43 0.367 35.82 55.9 23.99 0.429 36.69 54.65 22.69 0.415 38.19 55.33 23.5 0.425 36.88 54.68 24.28 0.444 38.14 Clean Char-level Char-level RR Word-level 74.06 56.18 0.759 66.37 51.94 51.09 0.984 51.78 72.78 54.78 0.753 65.69 70.56 54.83 0.777 64.46 71.47 55.78 0.78 64.64 52.63 52.67 1.001 52.58 Clean Char-level Char-level RR Word-level 66.29 30.26 0.456 51.05 66.15 34.14 0.516 53.89 66.41 34.38 0.518 53.16 65.18 33.79 0.518 52.91 52.91	56.82 21.13 0.372 38.23 0.673 55.66 20.43 0.367 35.82 0.644 55.9 23.99 0.429 36.69 0.656 54.65 22.69 0.415 38.19 0.699 55.33 23.5 0.425 36.88 0.667 54.68 24.28 0.444 38.14 0.698 Clean Char-level Char-level RR Word-level Word-level RR 74.06 56.18 0.759 66.37 0.896 51.94 51.09 0.984 51.78 0.997 72.78 54.78 0.753 65.69 0.903 70.56 54.83 0.777 64.46 0.914 71.47 55.78 0.78 64.64 0.904 52.63 52.67 1.001 52.58 0.999 Clean Char-level Char-level RR Word-level Word-level RR 66.29 30.26 0.456 51.05 0.77 66.15 34.14 0.516 <td>56.82 21.13 0.372 38.23 0.673 53.54 55.66 20.43 0.367 35.82 0.644 52.07 55.9 23.99 0.429 36.69 0.656 47.77 54.65 22.69 0.415 38.19 0.699 51.89 55.33 23.5 0.425 36.88 0.667 48.64 54.68 24.28 0.444 38.14 0.698 51.99 Clean Char-level Char-level RR Word-level Word-level RR Sentence-level 74.06 56.18 0.799 66.37 0.896 73.2 51.94 51.09 0.984 51.78 0.997 51.92 72.78 54.78 0.753 65.69 0.903 71.53 70.56 54.83 0.777 64.46 0.914 69.75 71.47 55.78 0.78 64.64 0.904 70.63 52.63 52.67 1.001 52.58 0.999</td> <td>56.82 21.13 0.372 38.23 0.673 53.54 0.942 55.66 20.43 0.367 35.82 0.644 52.07 0.936 55.9 23.99 0.429 36.69 0.656 47.77 0.855 54.65 22.69 0.415 38.19 0.699 51.89 0.949 55.33 23.5 0.425 36.88 0.667 48.64 0.879 54.68 24.28 0.444 38.14 0.698 51.99 0.951 Clean Char-level Char-level RR Word-level Word-level RR Sentence-level Sentence-level RR 74.06 56.18 0.759 66.37 0.896 73.2 0.988 51.94 51.09 0.984 51.78 0.997 51.92 1 72.78 54.78 0.753 65.69 0.903 71.53 0.983 70.56 54.83 0.777 64.46 0.914 69.75 0.989 71.47 55</td>	56.82 21.13 0.372 38.23 0.673 53.54 55.66 20.43 0.367 35.82 0.644 52.07 55.9 23.99 0.429 36.69 0.656 47.77 54.65 22.69 0.415 38.19 0.699 51.89 55.33 23.5 0.425 36.88 0.667 48.64 54.68 24.28 0.444 38.14 0.698 51.99 Clean Char-level Char-level RR Word-level Word-level RR Sentence-level 74.06 56.18 0.799 66.37 0.896 73.2 51.94 51.09 0.984 51.78 0.997 51.92 72.78 54.78 0.753 65.69 0.903 71.53 70.56 54.83 0.777 64.46 0.914 69.75 71.47 55.78 0.78 64.64 0.904 70.63 52.63 52.67 1.001 52.58 0.999	56.82 21.13 0.372 38.23 0.673 53.54 0.942 55.66 20.43 0.367 35.82 0.644 52.07 0.936 55.9 23.99 0.429 36.69 0.656 47.77 0.855 54.65 22.69 0.415 38.19 0.699 51.89 0.949 55.33 23.5 0.425 36.88 0.667 48.64 0.879 54.68 24.28 0.444 38.14 0.698 51.99 0.951 Clean Char-level Char-level RR Word-level Word-level RR Sentence-level Sentence-level RR 74.06 56.18 0.759 66.37 0.896 73.2 0.988 51.94 51.09 0.984 51.78 0.997 51.92 1 72.78 54.78 0.753 65.69 0.903 71.53 0.983 70.56 54.83 0.777 64.46 0.914 69.75 0.989 71.47 55

Table 10: Performance and decrease ratio of Full Finetuning on CLIP-BART against image corruptions given severity 1 to 5.

tions given	1 30 10	iiiy .											
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	1	64.98	-1.77	-2.652%	53.26	-1.78	-3.235%	72.284	-0.726	-0.995%	108.278	-6.752	-5.870%
gaussian_noise	1	65.73	-1.02	-1.528%	53.983	-1.057	-1.920%	72.872	-0.138	-0.189%	112.591	-2.439	-2.120%
shot_noise speckle_noise	1 1	65.58 65.57	-1.17 -1.18	-1.753% -1.768%	54.007 53.951	-1.033 -1.089	-1.877% -1.978%	72.642 72.815	-0.368 -0.195	-0.503% -0.268%	111.866 113.085	-3.164 -1.945	-2.751% -1.691%
zoom_blur	1	59.31	-7.44	-11.146%	50.986	-4.054	-7.366%	57.557	-15.453	-21.166%	85.318	-29.712	-25.830%
defocus_blur motion_blur	1	65.68 65.56	-1.07 -1.19	-1.603% -1.783%	54.15 54.754	-0.89 -0.286	-1.617% -0.519%	73.446 73.662	0.436 0.652	0.598% 0.892%	112.459 111.378	-2.571 -3.652	-2.235% -3.174%
glass_blur	1	65.72	-1.03	-1.543%	54.365	-0.280	-1.227%	72.901	-0.109	-0.150%	112.786	-2.244	-1.951%
gaussian_blur	1	66.33	-0.42	-0.629%	54.476	-0.564	-1.025%	73.618	0.608	0.833%	113.871	-1.159	-1.008%
jpeg_compression contrast	1 1	66.08 65.12	-0.67 -1.63	-1.004% -2.442%	54.73 54.397	-0.31 -0.643	-0.562% -1.169%	73.245 72.915	0.235 -0.095	0.322% -0.130%	114.068 112.188	-0.962 -2.842	-0.836% -2.471%
elastic_transform	1	66.34	-0.41	-0.614%	54.548	-0.492	-0.895%	72.456	-0.554	-0.759%	112.114	-2.916	-2.535%
pixelate snow	1	63.54 62.2	-3.21 -4.55	-4.809% -6.816%	53.363 51.67	-1.677 -3.37	-3.047% -6.124%	72.011 71.193	-0.999 -1.817	-1.368% -2.489%	104.059 100.746	-10.971 -14.284	-9.538% -12.418%
frost	1	63.32	-3.43	-5.139%	51.662	-3.378	-6.138%	71.451	-1.559	-2.135%	102.595	-12.435	-10.810%
fog brightness	1	64.67 66.41	-2.08 -0.34	-3.116% -0.509%	54.277 54.874	-0.763 -0.166	-1.386% -0.302%	72.456 73.504	-0.554 0.494	-0.759% 0.676%	111.289 114.175	-3.741 -0.855	-3.252% -0.743%
spatter	1	66.32	-0.43	-0.644%	55.048	0.008	0.015%	72.987	-0.023	-0.032%	113.983	-1.047	-0.910%
saturate	1	64.01	-2.74	-4.105%	53.92	-1.12	-2.036%	71.408	-1.602	-2.194%	110.866	-4.164	-3.620%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	2	63.89	-2.86	-4.285%	53.125	-1.915	-3.480%	71.48	-1.53	-2.096%	105.865	-9.165	-7.968%
gaussian_noise	2	64.9	-1.85	-2.772%	53.244	-1.796	-3.264%	72.298	-0.712	-0.975%	109.252	-5.778	-5.023%
shot_noise	2 2	64.71 65.1	-2.04 -1.65	-3.056% -2.472%	53.554 53.792	-1.486 -1.248	-2.700% -2.267%	72.04 72.169	-0.97 -0.841	-1.329% -1.152%	109.188 111.207	-5.842 -3.823	-5.078% -3.323%
speckle_noise zoom_blur	2	56.37	-10.38	-15.551%	48.307	-6.733	-12.234%	62.868	-10.142	-13.892%	68.607	-3.823 -46.423	-3.323% -40.357%
defocus_blur	2	64.98	-1.77	-2.652%	53.92	-1.12	-2.036%	73.073	0.063	0.086%	110.072	-4.958	-4.310%
motion_blur glass_blur	2 2	64.46 64.51	-2.29 -2.24	-3.431% -3.356%	54.11 53.403	-0.93 -1.637	-1.689% -2.975%	72.7 72.513	-0.31 -0.497	-0.425% -0.680%	108.436 107.491	-6.594 -7.539	-5.733% -6.554%
gaussian_blur	2	65.27	-1.48	-2.217%	54.087	-0.953	-1.732%	73.489	0.479	0.656%	111.55	-3.48	-3.025%
jpeg_compression	2	65.91	-0.84	-1.258%	54.11	-0.93	-1.689%	72.757	-0.253	-0.346%	112.967	-2.063	-1.794%
contrast elastic_transform	2 2	64.49 62.83	-2.26 -3.92	-3.386% -5.873%	54.158 52.186	-0.882 -2.854	-1.602% -5.185%	72.642 68.954	-0.368 -4.056	-0.503% -5.556%	109.976 97.789	-5.054 -17.241	-4.393% -14.988%
pixelate	2	62.52	-4.23	-6.337%	53.069	-1.971	-3.581%	68.882	-4.128	-5.654%	99.817	-15.213	-13.225%
snow	2	58.97	-7.78	-11.655%	49.11	-5.93	-10.775%	68.207	-4.803	-6.578%	88.639	-26.391	-22.943%
frost	2 2	59.75 63.99	-7.0 -2.76	-10.487% -4.135%	49.936 53.983	-5.104 -1.057	-9.273% -1.920%	69.269 67.317	-3.741 -5.693	-5.123% -7.797%	90.028 109.67	-25.002 -5.36	-21.736% -4.660%
fog brightness	2	65.82	-0.93	-1.393%	54.333	-0.707	-1.285%	73.389	0.379	0.519%	112.915	-2.115	-1.838%
spatter	2 2	62.97	-3.78	-5.663%	52.838	-2.202	-4.000%	72.011	-0.999	-1.368% -5.359%	103.555	-11.475	-9.976%
saturate	2	60.93	-5.82	-8.719%	52.473	-2.567	-4.665%	69.097	-3.913		105.074	-9.956	-8.655%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Caption Decrease	n Decrease Ratio
impulse_noise	3	63.14	-3.61	-5.408%	52.846	-2.194	-3.986%	70.59	-2.42	-3.315%	104.057	-10.973	-9.539%
gaussian_noise	3	63.11	-3.64	-5.453%	52.902	-2.138	-3.885%	70.934	-2.076	-2.843%	104.522	-10.508	-9.135%
shot_noise speckle_noise	3	63.07 63.49	-3.68 -3.26	-5.513% -4.884%	53.228 52.759	-1.812 -2.281	-3.292% -4.145%	71.695 70.547	-1.315 -2.463	-1.801% -3.374%	104.457 105.693	-10.573 -9.337	-9.192% -8.117%
zoom_blur	3	53.39	-13.36	-20.015%	46.709	-8.331	-15.137%	59.882	-13.128	-17.981%	54.376	-60.654	-52.729%
defocus_blur motion_blur	3	62.97 62.38	-3.78 -4.37	-5.663% -6.547%	52.743 53.554	-2.297 -1.486	-4.174% -2.700%	71.796 70.992	-1.214 -2.018	-1.663% -2.764%	102.735 101.178	-12.295 -13.852	-10.688% -12.042%
glass_blur	3	59.33	-7.42	-0.347%	49.618	-5.422	-9.850%	69.341	-3.669	-5.025%	87.475	-13.832	-23.955%
gaussian_blur	3	64.02	-2.73	-4.090%	52.997	-2.043	-3.711%	72.212	-0.798	-1.093%	105.758	-9.272	-8.060%
jpeg_compression contrast	3	65.65 63.11	-1.1 -3.64	-1.648% -5.453%	54.42 53.594	-0.62 -1.446	-1.126% -2.628%	72.212 70.963	-0.798 -2.047	-1.093% -2.804%	111.718 105.053	-3.312 -9.977	-2.880% -8.673%
elastic_transform	3	64.47	-2.28	-3.416%	53.331	-1.709	-3.105%	72.973	-0.037	-0.051%	107.551	-7.479	-6.502%
pixelate	3	60.0	-6.75	-10.112%	51.479	-3.561	-6.470% -12.739%	67.145 66.112	-5.865	-8.033% -9.448%	90.077 80.885	-24.953 -34.145	-21.693%
snow frost	3	56.86 57.12	-9.89 -9.63	-14.816% -14.427%	48.028 48.863	-7.012 -6.177	-11.223%	67.303	-6.898 -5.707	-7.817%	81.406	-33.624	-29.684% -29.231%
fog	3	62.98	-3.77	-5.648%	53.697	-1.343	-2.440%	71.279	-1.731	-2.371%	105.58	-9.45	-8.216%
brightness spatter	3	65.2 61.54	-1.55 -5.21	-2.322% -7.805%	54.102 51.304	-0.938 -3.736	-1.703% -6.788%	72.312 71.265	-0.698 -1.745	-0.956% -2.391%	112.42 96.361	-2.61 -18.669	-2.269% -16.230%
saturate	3	65.68	-1.07	-1.603%	54.174	-0.866	-1.573%	73.518	0.508	0.696%	113.541	-1.489	-1.294%
corruption	severity		VQ.			GQ/			NLV			Captio	
impulse_noise	4	Acc 60.24	Decrease -6.51	-9.753%	Acc 51.598	Decrease -3.442	Decrease Ratio	Acc 68.882	Decrease -4.128	Decrease Ratio	CIDer 94.23	Decrease -20.8	Decrease Ratio
gaussian_noise	4	60.56	-6.19	-9.273%	51.67	-3.442	-6.124%	69.025	-3.985	-5.458%	96.345	-18.685	-16.243%
shot_noise	4	60.0	-6.75	-10.112%	51.264	-3.776	-6.860%	67.633	-5.377	-7.365%	94.247	-20.783	-18.068%
speckle_noise zoom_blur	4	61.73 51.52	-5.02 -15.23	-7.521% -22.816%	52.234 45.262	-2.806 -9.778	-5.098% -17.766%	69.772 58.203	-3.238 -14.807	-4.435% -20.281%	100.477 45.355	-14.553 -69.675	-12.651% -60.571%
defocus_blur	4	61.36	-5.39	-8.075%	52.003	-3.037	-5.517%	70.044	-2.966	-4.062%	95.82	-19.21	-16.700%
motion_blur	4	59.67	-7.08	-10.607%	51.153	-3.887	-7.062%	68.078	-4.932	-6.755%	87.182	-27.848	-24.209%
glass_blur gaussian blur	4	57.32 61.79	-9.43 -4.96	-14.127% -7.431%	48.569 52.25	-6.471 -2.79	-11.757% -5.069%	68.021 70.26	-4.989 -2.75	-6.834% -3.767%	78.438 98.415	-36.592 -16.615	-31.811% -14.444%
jpeg_compression	4	64.36	-2.39	-3.581%	53.943	-1.097	-1.992%	72.226	-0.784	-1.074%	107.108	-7.922	-6.887%
contrast	4	58.97	-7.78	-11.655%	50.723	-4.317 3.267	-7.843% 5.036%	67.059	-5.951	-8.151%	92.46	-22.57	-19.621%
elastic_transform pixelate	4	62.44 55.69	-4.31 -11.06	-6.457% -16.569%	51.773 48.561	-3.267 -6.479	-5.936% -11.771%	71.81 62.495	-1.2 -10.515	-1.644% -14.403%	98.842 74.937	-16.188 -40.093	-14.073% -34.855%
snow	4	53.7	-13.05	-19.551%	46.216	-8.824	-16.033%	63.672	-9.338	-12.791%	64.972	-50.058	-43.517%
frost	4	56.41 61.3	-10.34 -5.45	-15.491% -8.165%	48.76 52.202	-6.28 -2.838	-11.410% -5.156%	66.973 69.729	-6.037 -3.281	-8.269% -4.494%	77.764 99.957	-37.266 -15.073	-32.397% -13.103%
fog brightness	4	64.45	-5.45 -2.3	-8.165% -3.446%	52.202	-2.838 -1.431	-5.156% -2.599%	71.078	-3.281 -1.932	-4.494% -2.646%	109.263	-15.073 -5.767	-13.103% -5.014%
spatter	4	59.01	-7.74	-11.596%	50.246	-4.794	-8.709%	68.265	-4.745	-6.500%	85.761	-29.269	-25.445%
saturate	4	62.99	-3.76	-5.633%	52.608	-2.432	-4.419%	70.662	-2.348	-3.216%	107.0	-8.03	-6.981%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	Decrease Ratio
impulse_noise	5 5	56.35 56.25	-10.4 -10.5	-15.58% -15.73%	49.15 49.03	-5.89 -6.01	-10.70% -10.92%	66.16 65.81	-6.85 -7.2	-9.38% -9.86%	81.17 81.35	-33.86 -33.68	-29.44% -29.28%
gaussian_noise shot_noise	5	57.2	-10.5 -9.55	-15./3% -14.31%	49.03	-6.01 -5.22	-10.92% -9.48%	65.73	-7.2 -7.28	-9.86% -9.97%	81.35 85.44	-33.68 -29.59	-29.28% -25.72%
speckle_noise	5	59.85	-6.9	-10.34%	51.44	-3.6	-6.54%	67.53	-5.48	-7.51%	94.18	-20.85	-18.13%
zoom_blur	5	49.2	-17.55	-26.29%	47.2	-7.84	-14.24%	63.93	-9.08	-12.44%	37.14	-77.89	-67.71%
defocus_blur motion_blur	5 5	59.06 57.05	-7.69 -9.7	-11.52% -14.53%	50.55 50.31	-4.49 -4.73	-8.16% -8.59%	68.14 66.58	-4.87 -6.43	-6.67% -8.81%	86.8 75.71	-28.23 -39.32	-24.54% -34.18%
glass_blur	5	54.4	-12.35	-18.50%	46.66	-8.38	-15.23%	65.92	-7.09	-9.71%	65.06	-49.97	-43.44%
gaussian_blur	5	58.1	-8.65	-12.96%	49.94	-5.1	-9.27%	66.92	-6.09	-8.34%	83.06	-31.97	-27.79%
jpeg_compression contrast	5 5	62.11 51.51	-4.64 -15.24	-6.95% -22.83%	52.66 46.19	-2.38 -8.85	-4.32% -16.08%	70.7 60.45	-2.31 -12.56	-3.16% -17.20%	101.57 64.22	-13.46 -50.81	-11.70% -44.17%
elastic_transform	5	55.75	-13.24	-22.83% -16.48%	46.19	-8.83 -7.9	-14.35%	67.51	-12.36 -5.5	-17.20% -7.53%	71.91	-43.12	-37.49%
pixelate	5	53.02	-13.73	-20.57%	45.89	-9.15	-16.62%	59.53	-13.48	-18.46%	62.17	-52.86	-45.95%
snow	5 5	54.91 54.68	-11.84 -12.07	-17.74% -18.08%	47.2 47.86	-7.84 -7.18	-14.24% -13.05%	63.92 64.54	-9.09 -8.47	-12.45% -11.60%	72.51 71.96	-42.52 -43.07	-36.96% -37.44%
frost fog	5	57.47	-12.07 -9.28	-18.08% -13.90%	47.86	-7.18 -5.32	-13.05% -9.67%	67.11	-8.47 -5.9	-11.60% -8.08%	71.96 84.94	-43.07	-37.44% -26.16%
brightness	5	63.17	-3.58	-5.36%	52.67	-2.37	-4.31%	70.13	-2.88	-3.94%	105.19	-9.84	-8.55%
spatter saturate	5 5	55.8 60.41	-10.95 -6.34	-16.40% -9.50%	48.44 50.97	-6.6 -4.07	-11.99% -7.39%	65.81 66.75	-7.2 -6.26	-9.86% -8.57%	72 98.52	-43.03 -16.51	-37.41% -14.35%
saturate	J	00.41	-0.34	-2.30%	50.97	-4.07	-1.3970	00.75	-0.20	-0.3770	20.32	-10.31	-14.3370

Table 11: Performance and decrease ratio of Half-shared Adapters on CLIP-BART against image corruptions given severity 1 to 5.

Corruption	s give	11 30				00			****	n.		C ::	
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	1	62.84	-2.36	-3.620%	51.654	-1.306	-2.467%	69.241	-0.789	-1.127%	109.345	-5.155	-4.502%
gaussian_noise shot_noise	1 1	63.97 64.04	-1.23 -1.16	-1.887% -1.779%	52.6 51.701	-0.36 -1.259	-0.680% -2.377%	70.217 70.26	0.187 0.23	0.267% 0.328%	112.308 111.183	-2.192 -3.317	-1.915% -2.897%
speckle_noise	i	64.15	-1.05	-1.610%	52.139	-0.821	-1.551%	69.255	-0.775	-1.107%	111.187	-3.317	-2.893%
zoom_blur	1 1	58.33	-6.87	-10.537%	49.507	-3.453 -0.805	-6.520%	57.227	-12.803 0.144	-18.282%	85.69 110.785	-28.81 -3.715	-25.162%
defocus_blur motion_blur	1	64.04 64.08	-1.16 -1.12	-1.779% -1.718%	52.155 52.457	-0.503	-1.521% -0.950%	70.174 70.116	0.144	0.205% 0.123%	110.783	-3.713 -4.407	-3.245% -3.849%
glass_blur	1	64.14	-1.06	-1.626%	52.385	-0.575	-1.086%	70.389	0.359	0.513%	111.431	-3.069	-2.680%
gaussian_blur jpeg_compression	1 1	64.9 64.63	-0.3 -0.57	-0.460% -0.874%	52.95 52.457	-0.01 -0.503	-0.020% -0.950%	70.274 70.36	0.244 0.33	0.349% 0.472%	113.665 113.127	-0.835 -1.373	-0.729% -1.200%
contrast	1	63.76	-1.44	-2.209%	52.027	-0.933	-1.761%	69.901	-0.129	-0.184%	111.495	-3.005	-2.624%
elastic_transform pixelate	1 1	64.43 61.78	-0.77 -3.42	-1.181% -5.245%	52.274 51.137	-0.686 -1.823	-1.296% -3.442%	69.8 69.112	-0.23 -0.918	-0.328% -1.312%	112.4 102.092	-2.1 -12.408	-1.834% -10.836%
snow	1	60.28	-4.92	-7.546%	50.477	-2.483	-4.688%	68.265	-1.765	-2.521%	99.536	-14.964	-13.069%
frost	1	61.47	-3.73	-5.721% -2.899%	50.469	-2.491 -0.996	-4.703%	68.451	-1.579	-2.254%	103.326	-11.174	-9.759%
fog brightness	1 1	63.31 64.79	-1.89 -0.41	-2.899% -0.629%	51.964 52.663	-0.996	-1.881% -0.560%	70.274 70.748	0.244 0.718	0.349% 1.025%	111.251 113.052	-3.249 -1.448	-2.837% -1.265%
spatter	1	64.51	-0.69	-1.058%	52.552	-0.408	-0.770%	70.317	0.287	0.410%	112.966	-1.534	-1.340%
saturate	1	62.37	-2.83	-4.340%	51.638	-1.322	-2.497%	69.269	-0.761	-1.086%	110.372	-4.128	-3.606%
corruption	severity	Acc	VQ Decrease	Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	2	62.14	-3.06	-4.693%	50.954	-2.006	-3.788%	67.978	-2.052	-2.931%	105.6	-8.9	-7.773%
gaussian_noise shot_noise	2 2	63.21 63.13	-1.99 -2.07	-3.052% -3.175%	51.487 51.773	-1.473 -1.187	-2.782% -2.241%	69.413 68.939	-0.617 -1.091	-0.881% -1.557%	109.248 107.995	-5.252 -6.505	-4.586% -5.681%
speckle_noise	2	63.53	-1.67	-2.561%	51.693	-1.267	-2.392%	69.399	-0.631	-0.902%	110.78	-3.72	-3.249%
zoom_blur	2	55.67	-9.53	-14.617%	47.694	-5.266	-9.943%	61.806	-8.224	-11.744%	69.462	-45.038	-39.334%
defocus_blur motion_blur	2 2	63.37 62.96	-1.83 -2.24	-2.807% -3.436%	51.383 51.582	-1.577 -1.378	-2.977% -2.602%	70.001 69.872	-0.029 -0.158	-0.041% -0.225%	109.082 106.891	-5.418 -7.609	-4.732% -6.646%
glass_blur	2	63.17	-2.03	-3.113%	51.717	-1.243	-2.347%	69.126	-0.904	-1.291%	107.2	-7.3	-6.376%
gaussian_blur	2 2	63.88 64.26	-1.32 -0.94	-2.025% -1.442%	51.852 52.083	-1.108 -0.877	-2.091% -1.656%	70.231 69.585	0.201 -0.445	0.287% -0.635%	110.2 112.297	-4.3 -2.203	-3.756% -1.924%
jpeg_compression contrast	2	63.14	-0.94 -2.06	-1.442% -3.160%	52.083	-0.877 -1.116	-1.656% -2.106%	69.385	-0.445	-0.635% -1.004%	109.098	-2.203 -5.402	-1.924% -4.718%
elastic_transform	2	61.55	-3.65	-5.598%	50.517	-2.443	-4.613%	67.547	-2.483	-3.546%	97.081	-17.419	-15.213%
pixelate	2 2	61.27 57.4	-3.93 -7.8	-6.028% -11.963%	50.731 47.162	-2.229 -5.798	-4.208% -10.948%	66.284 66.815	-3.746 -3.215	-5.349% -4.591%	99.594 88.051	-14.906 -26.449	-13.018% -23.099%
snow frost	2	58.16	-7.8 -7.04	-11.963% -10.798%	48.497	-5.798 -4.463	-10.948% -8.426%	67.002	-3.215 -3.028	-4.391% -4.324%	91.679	-26.449 -22.821	-23.099% -19.931%
fog	2	62.61	-2.59	-3.972%	51.415	-1.545	-2.917%	65.638	-4.392	-6.272%	109.042	-5.458	-4.767%
brightness spatter	2 2	64.2 61.23	-1.0 -3.97	-1.534% -6.089%	52.003 50.859	-0.957 -2.101	-1.806% -3.968%	70.274 69.212	0.244 -0.818	0.349% -1.168%	112.985 102.925	-1.515 -11.575	-1.323% -10.109%
saturate	2	59.61	-5.59	-8.574%	50.708	-2.252	-4.253%	67.088	-2.942	-4.201%	104.939	-9.561	-8.350%
corruption	severity	Acc	VQ		Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV	R Decrease Ratio	CIDer	Captio	
impulse_noise	3	Acc 61.32	Decrease -3.88	Decrease Ratio	Acc 50.175	-2.785	-5.259%	Acc 68.222	Decrease -1.808	-2.582%	103.077	Decrease -11.423	Decrease Ratio
gaussian_noise	3	61.62	-3.58	-5.491%	50.549	-2.411	-4.553%	68.58	-1.45	-2.070%	105.052	-9.448	-8.251%
shot_noise	3	61.49	-3.71	-5.690%	51.264	-1.696	-3.202%	68.164	-1.866	-2.664%	103.781	-10.719	-9.362%
speckle_noise zoom_blur	3	61.96 52.68	-3.24 -12.52	-4.969% -19.202%	50.867 45.675	-2.093 -7.285	-3.953% -13.756%	68.509 59.165	-1.521 -10.865	-2.172% -15.515%	104.433 54.675	-10.067 -59.825	-8.792% -52.249%
defocus_blur	3	61.64	-3.56	-5.460%	50.875	-2.085	-3.938%	68.738	-1.292	-1.844%	102.239	-12.261	-10.708%
motion_blur glass_blur	3	61.2 57.94	-4.0 -7.26	-6.135% -11.135%	51.153 47.742	-1.807 -5.218	-3.412% -9.853%	67.978 67.159	-2.052 -2.871	-2.931% -4.099%	100.62 87.071	-13.88 -27.429	-12.123% -23.956%
gaussian_blur	3	62.33	-2.87	-4.402%	51.423	-1.537	-2.902%	68.652	-1.378	-1.967%	104.626	-9.874	-8.624%
jpeg_compression	3	63.99	-1.21	-1.856%	52.536	-0.424	-0.800%	69.643	-0.387	-0.553%	111.723	-2.777	-2.425%
contrast elastic transform	3	61.77 63.0	-3.43 -2.2	-5.261% -3.374%	50.755 51.574	-2.205 -1.386	-4.163% -2.617%	68.336 69.93	-1.694 -0.1	-2.418% -0.143%	105.203 107.179	-9.297 -7.321	-8.120% -6.394%
pixelate	3	58.76	-6.44	-9.877%	49.372	-3.588	-6.775%	65.294	-4.736	-6.763%	90.913	-23.587	-20.600%
snow	3	55.52 55.43	-9.68 -9.77	-14.847% -14.985%	47.289 46.772	-5.671	-10.708%	64.892 65.222	-5.138	-7.337%	79.752 82.156	-34.748 -32.344	-30.347%
frost fog	3	61.42	-3.78	-14.985% -5.798%	51.328	-6.188 -1.632	-11.684% -3.082%	68.58	-4.808 -1.45	-6.866% -2.070%	105.691	-32.344	-28.248% -7.694%
brightness	3	63.4	-1.8	-2.761%	51.725	-1.235	-2.332%	69.714	-0.316	-0.451%	111.483	-3.017	-2.635%
spatter saturate	3	59.87 64.25	-5.33 -0.95	-8.175% -1.457%	49.96 51.821	-3.0 -1.139	-5.664% -2.151%	68.092 70.518	-1.938 0.488	-2.767% 0.697%	96.967 112.453	-17.533 -2.047	-15.313% -1.788%
corruption	severity		VQ			GQ.			NLV			Captio	
	4	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian noise	4	58.84 59.07	-6.36 -6.13	-9.755% -9.402%	49.396 49.833	-3.564 -3.127	-6.730% -5.904%	67.303 67.059	-2.727 -2.971	-3.894% -4.242%	93.77 95.573	-20.73 -18.927	-18.105% -16.530%
shot_noise	4	58.48	-6.72	-10.307%	50.04	-2.92	-5.514%	65.896	-4.134	-5.903%	92.981	-21.519	-18.794%
speckle_noise zoom_blur	4	60.43 50.72	-4.77 -14.48	-7.316% -22.209%	50.684 44.538	-2.276 -8.422	-4.298% -15.902%	67.317 57.571	-2.713 -12.459	-3.874% -17.790%	100.508 44.394	-13.992 -70.106	-12.220% -61.228%
defocus_blur	4	59.77	-5.43	-8.328%	50.151	-2.809	-5.304%	67.246	-2.784	-3.976%	94.926	-19.574	-17.095%
motion_blur	4	58.71	-6.49	-9.954%	49.642	-3.318	-6.265%	66.413	-3.617	-5.165%	87.531	-26.969	-23.553%
glass_blur gaussian blur	4	56.08 60.8	-9.12 -4.4	-13.988% -6.748%	47.058 50.509	-5.902 -2.451	-11.144% -4.628%	66.485 67.978	-3.545 -2.052	-5.062% -2.931%	79.98 97.356	-34.52 -17.144	-30.148% -14.973%
jpeg_compression	4	63.05	-2.15	-3.298%	51.169	-1.791	-3.382%	69.47	-0.56	-0.799%	107.974	-6.526	-5.699%
contrast	4	57.65 60.82	-7.55 -4.38	-11.580% -6.718%	48.704 49.587	-4.256 -3.373	-8.036% -6.370%	65.423 69.47	-4.607 -0.56	-6.579% -0.799%	90.713 99.136	-23.787	-20.775%
elastic_transform pixelate	4	54.89	-4.38 -10.31	-6./18% -15.813%	49.587	-3.373 -6.752	-6.370% -12.750%	61.676	-0.56 -8.354	-0.799% -11.928%	73.596	-15.364 -40.904	-13.418% -35.724%
snow	4	52.57	-12.63	-19.371%	45.095	-7.865	-14.852%	62.81	-7.22	-10.309%	64.88	-49.62	-43.336%
frost fog	4	54.92 59.85	-10.28 -5.35	-15.767% -8.206%	46.915 50.143	-6.045 -2.817	-11.414% -5.319%	65.451 68.25	-4.579 -1.78	-6.538% -2.541%	78.524 100.76	-35.976 -13.74	-31.420% -12.000%
brightness	4	62.56	-2.64	-4.049%	51.153	-1.807	-3.412%	69.011	-1.019	-1.455%	108.211	-6.289	-5.492%
spatter saturate	4	57.78 61.38	-7.42 -3.82	-11.380% -5.859%	48.251 50.437	-4.709 -2.523	-8.892% -4.763%	66.858 68.322	-3.172 -1.708	-4.529% -2.439%	86.919 107.238	-27.581 -7.262	-24.088% -6.342%
		01.50	VQ		50.157	GQ/		00.522	NLV		107.250	Captio	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	5 5	54.94 54.79	-10.26 -10.41	-15.736% -15.966%	47.949 47.742	-5.011 -5.218	-9.462% -9.853%	64.762 64.59	-5.268 -5.44	-7.522% -7.768%	79.944 79.987	-34.556 -34.513	-30.180% -30.143%
shot noise	5	55.94	-9.26	-14.202%	48.076	-4.884	-9.222%	63.858	-6.172	-8.813%	84.561	-29.939	-26.148%
speckle_noise	5	58.5	-6.7	-10.276%	49.563	-3.397	-6.415%	65.581	-4.449	-6.354%	93.942	-20.558	-17.954%
zoom_blur defocus_blur	5 5	48.42 57.85	-16.78 -7.35	-25.736% -11.273%	42.821 48.911	-10.139 -4.049	-19.145% -7.646%	56.28 66.427	-13.75 -3.603	-19.635% -5.144%	36.509 85.722	-77.991 -28.778	-68.114% -25.134%
motion_blur	5	56.53	-8.67	-13.298%	48.601	-4.359	-8.231%	64.547	-5.483	-7.829%	75.587	-38.913	-33.985%
glass_blur	5	53.4	-11.8	-18.098%	45.238	-7.722	-14.581%	64.533	-5.497	-7.850%	66.158	-48.342	-42.220%
gaussian_blur jpeg_compression	5 5	56.88 60.79	-8.32 -4.41	-12.761% -6.764%	47.822 50.7	-5.138 -2.26	-9.702% -4.268%	65.064 68.193	-4.966 -1.837	-7.091% -2.623%	82.142 100.892	-32.358 -13.608	-28.260% -11.885%
contrast	5	50.71	-14.49	-22.224%	44.975	-7.985	-15.077%	60.83	-9.2	-13.138%	62.498	-52.002	-45.416%
elastic_transform	5 5	54.9 52.23	-10.3 -12.97	-15.798% -19.893%	46.454 43.838	-6.506 -9.122	-12.285% -17.223%	65.308 60.299	-4.722 -9.731	-6.743% -13.896%	72.542 60.165	-41.958 -54.335	-36.645% -47.454%
pixelate snow	5	53.67	-12.97	-19.893% -17.684%	45.838	-9.122 -6.919	-17.223% -13.065%	63.356	-9.731 -6.674	-13.896% -9.530%	72.11	-34.333 -42.39	-47.454% -37.022%
frost	5	53.64	-11.56	-17.730%	46.502	-6.458	-12.194%	64.145	-5.885	-8.403%	72.363	-42.137	-36.801%
fog brightness	5 5	56.3 61.51	-8.9 -3.69	-13.650% -5.660%	47.519 50.358	-5.441 -2.602	-10.273% -4.914%	65.796 67.705	-4.234 -2.325	-6.046% -3.320%	85.265 105.799	-29.235 -8.701	-25.533% -7.599%
spatter	5	55.03	-10.17	-15.598%	46.899	-6.061	-11.444%	64.576	-5.454	-7.788%	74.231	-40.269	-35.169%
saturate	5	59.13	-6.07	-9.310%	49.261	-3.699	-6.985%	64.59	-5.44	-7.768%	98.81	-15.69	-13.703%

Table 12: Performance and decrease ratio of Hyperformer on CLIP-BART against image corruptions given severity 1 to 5.

corruption	severity	Δοο	VQ.	A Decrease Ratio	Δ.c.c	GQ/ Decrease		Δ.c.c	NLV Decrease		CIDer	Captio	
impulse_noise	1	Acc 63.11	Decrease -2.27	-3.472%	Acc 51.113	Decrease -1.407	Decrease Ratio	Acc 70.59	Decrease -1.62	Decrease Ratio	108.315	Decrease -6.553	Decrease Ratio
gaussian_noise	1	64.11	-1.27	-1.942%	52.218	-0.302	-0.575%	71.236	-0.974	-1.349%	111.564	-3.304	-2.876%
shot_noise speckle_noise	1 1	64.01 64.26	-1.37 -1.12	-2.095% -1.713%	51.773 51.988	-0.747 -0.532	-1.422% -1.014%	71.25 71.365	-0.96 -0.845	-1.329% -1.170%	111.913 111.887	-2.955 -2.981	-2.573% -2.596%
zoom_blur	1	58.64	-6.74	-10.309%	49.284	-3.236	-6.161%	56.05	-16.16	-22.379%	86.759	-28.109	-24.470%
defocus_blur motion_blur	1	64.36 64.19	-1.02 -1.19	-1.560% -1.820%	52.194 51.988	-0.326 -0.532	-0.620% -1.014%	71.953 71.394	-0.257 -0.816	-0.355% -1.130%	111.434 111.28	-3.434 -3.588	-2.989% -3.123%
glass_blur	1	64.29	-1.09	-1.667%	52.29	-0.23	-0.438%	71.867	-0.343	-0.474%	110.75	-4.118	-3.585%
gaussian_blur	1	65.14	-0.24	-0.367%	52.481	-0.039	-0.075%	72.025	-0.185	-0.256%	113.892	-0.976	-0.849%
jpeg_compression contrast	1 1	64.59 64.11	-0.79 -1.27	-1.208% -1.942%	52.218 52.194	-0.302 -0.326	-0.575% -0.620%	72.126 71.107	-0.084 -1.103	-0.117% -1.528%	113.208 111.276	-1.66 -3.592	-1.445% -3.127%
elastic_transform	1	64.85	-0.53	-0.811%	52.488	-0.032	-0.060%	70.762	-1.448	-2.005%	111.751	-3.117	-2.713%
pixelate snow	1	61.97 60.68	-3.41 -4.7	-5.216% -7.189%	51.153 50.231	-1.367 -2.289	-2.603% -4.359%	69.872 69.7	-2.338 -2.51	-3.237% -3.476%	102.682 99.589	-12.186 -15.279	-10.609% -13.302%
frost	1	61.91	-3.47	-5.307%	50.342	-2.178	-4.147%	69.844	-2.366	-3.277%	103.414	-11.454	-9.971%
fog brightness	1	63.7 64.96	-1.68 -0.42	-2.570% -0.642%	52.186 52.322	-0.334 -0.198	-0.635% -0.378%	70.963 71.681	-1.247 -0.529	-1.727% -0.733%	110.747 114.6	-4.121 -0.268	-3.588% -0.233%
spatter	1	64.8	-0.58	-0.887%	52.25	-0.198	-0.514%	71.509	-0.701	-0.971%	113.441	-1.427	-1.242%
saturate	1	62.41	-2.97	-4.543%	50.644	-1.876	-3.572%	70.604	-1.606	-2.224%	111.07	-3.798	-3.306%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	2	62.56	-2.82	-4.313%	51.264	-1.256	-2.391%	69.858	-2.352	-3.257%	105.447	-9.421	-8.202%
gaussian_noise shot_noise	2 2	63.22 63.2	-2.16 -2.18	-3.304% -3.334%	51.28 51.534	-1.24 -0.986	-2.361% -1.877%	70.389 70.791	-1.821 -1.419	-2.522% -1.965%	108.798 108.495	-6.07 -6.373	-5.285% -5.548%
speckle_noise	2	63.8	-1.58	-2.417%	51.375	-1.145	-2.179%	70.619	-1.591	-2.204%	110.85	-4.018	-3.498%
zoom_blur defocus_blur	2 2	55.69 63.91	-9.69 -1.47	-14.821% -2.248%	47.496 51.868	-5.024 -0.652	-9.567% -1.241%	61.389 71.064	-10.821 -1.146	-14.985% -1.588%	72.303 109.619	-42.565 -5.249	-37.056% -4.569%
motion_blur	2	63.28	-2.1	-3.212%	51.67	-0.85	-1.619%	71.178	-1.032	-1.429%	107.325	-7.543	-6.566%
glass_blur gaussian blur	2 2	63.23 64.24	-2.15 -1.14	-3.288% -1.744%	51.852 51.932	-0.668 -0.588	-1.271% -1.120%	70.733 71.595	-1.477 -0.615	-2.045% -0.852%	107.49 110.869	-7.378 -3.999	-6.423% -3.482%
jpeg_compression	2	64.52	-1.14	-1.744% -1.315%	51.932	-0.588 -0.35	-1.120% -0.666%	71.595 71.796	-0.615 -0.414	-0.852% -0.574%	111.366	-3.999 -3.502	-3.048%
contrast	2 2	63.36	-2.02	-3.090%	51.821	-0.699	-1.332%	70.518	-1.692	-2.343%	109.591	-5.277	-4.594%
elastic_transform pixelate	2 2	61.92 61.24	-3.46 -4.14	-5.292% -6.332%	50.716 50.723	-1.804 -1.797	-3.436% -3.421%	68.049 67.36	-4.161 -4.85	-5.762% -6.716%	96.699 100.385	-18.169 -14.483	-15.818% -12.608%
snow	2	57.78	-7.6	-11.624%	47.535	-4.985	-9.491%	67.145	-5.065	-7.014%	88.787	-26.081	-22.705%
frost fog	2 2	58.72 63.02	-6.66 -2.36	-10.187% -3.610%	48.354 51.375	-4.166 -1.145	-7.932% -2.179%	68.451 67.073	-3.759 -5.137	-5.205% -7.113%	90.232 109.229	-24.636 -5.639	-21.447% -4.909%
brightness	2	64.54	-0.84	-1.285%	52.258	-0.262	-0.499%	71.265	-0.945	-1.309%	112.945	-1.923	-1.674%
spatter saturate	2 2	61.69 59.63	-3.69 -5.75	-5.644% -8.795%	50.588 50.223	-1.932 -2.297	-3.678% -4.374%	70.26 68.638	-1.95 -3.572	-2.701% -4.947%	102.503 105.416	-12.365 -9.452	-10.764% -8.228%
corruption	severity		VQ.			GQA			NLV			Captio	
impulse_noise	3	Acc 61.56	Decrease -3.82	Decrease Ratio	Acc 50.954	Decrease -1.566	Decrease Ratio	Acc 69.714	Decrease -2.496	Decrease Ratio	CIDer 102.727	Decrease -12.141	-10.569%
gaussian_noise	3	62.05	-3.33	-5.093%	51.296	-1.224	-2.331%	69.528	-2.682	-3.714%	103.63	-11.238	-9.783%
shot_noise speckle_noise	3	61.79 61.96	-3.59 -3.42	-5.491% -5.231%	51.145 51.129	-1.375 -1.391	-2.618% -2.649%	69.772 69.872	-2.438 -2.338	-3.377% -3.237%	104.573 105.375	-10.295 -9.493	-8.962% -8.264%
zoom_blur	3	53.18	-12.2	-18.660%	45.341	-7.179	-13.669%	58.375	-13.835	-19.159%	58.544	-56.324	-49.034%
defocus_blur	3	62.01	-3.37	-5.154% -5.644%	50.771 51.002	-1.749 -1.518	-3.330% -2.891%	70.159 69.025	-2.051	-2.840% -4.410%	103.089 101.688	-11.779	-10.254% -11.474%
motion_blur glass_blur	3	61.69 57.83	-3.69 -7.55	-3.644% -11.548%	47.997	-1.518 -4.523	-2.891% -8.613%	67.604	-3.185 -4.606	-6.378%	86.674	-13.18 -28.194	-24.545%
gaussian_blur	3	62.8	-2.58 -1.2	-3.946%	51.232	-1.288	-2.452%	70.174	-2.036	-2.820%	105.091	-9.777	-8.512%
jpeg_compression contrast	3	64.18 62.11	-3.27	-1.835% -5.002%	51.948 51.352	-0.572 -1.168	-1.089% -2.225%	71.092 69.399	-1.118 -2.811	-1.548% -3.893%	110.729 105.39	-4.139 -9.478	-3.603% -8.251%
elastic_transform	3	63.12	-2.26	-3.457%	51.55	-0.97	-1.846%	70.834	-1.376	-1.906%	107.145	-7.723	-6.723%
pixelate snow	3	59.06 55.98	-6.32 -9.4	-9.667% -14.377%	49.253 46.875	-3.267 -5.645	-6.221% -10.747%	66.356 65.681	-5.854 -6.529	-8.107% -9.042%	91.132 80.277	-23.736 -34.591	-20.664% -30.114%
frost	3	56.45	-8.93	-13.659%	47.392	-5.128	-9.763%	66.915	-5.295	-7.332%	80.946	-33.922	-29.531%
fog brightness	3	61.72 63.77	-3.66 -1.61	-5.598% -2.463%	50.867 52.019	-1.653 -0.501	-3.148% -0.953%	69.844 70.891	-2.366 -1.319	-3.277% -1.826%	106.669 111.091	-8.199 -3.777	-7.138% -3.288%
spatter	3	60.24	-5.14	-7.862%	49.69	-2.83	-5.389%	68.939	-3.271	-4.529%	96.355	-18.513	-16.117%
saturate	3	64.46	-0.92	-1.407%	52.075	-0.445	-0.847%	71.322	-0.888	-1.230%	112.255	-2.613	-2.275%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	4	59.22	-6.16	-9.422%	50.183	-2.337	-4.450%	67.647	-4.563	-6.318%	93.42	-21.448	-18.672%
gaussian_noise shot_noise	4	59.46 58.77	-5.92 -6.61	-9.055% -10.110%	50.08 49.857	-2.44 -2.663	-4.647% -5.071%	68.753 67.49	-3.457 -4.72	-4.788% -6.537%	95.94 94.596	-18.928 -20.272	-16.478% -17.648%
speckle_noise	4	60.51	-4.87	-7.449%	50.755	-1.765	-3.360%	68.566	-3.644	-5.046%	100.903	-13.965	-12.157%
zoom_blur defocus_blur	4	51.39 60.34	-13.99 -5.04	-21.398% -7.709%	44.149 49.92	-8.371 -2.6	-15.940% -4.950%	56.595 69.284	-15.615 -2.926	-21.624% -4.052%	47.784 95.83	-67.084 -19.038	-58.401% -16.574%
motion_blur	4	58.68	-6.7	-10.248%	49.69	-2.83	-5.389%	67.274	-4.936	-6.835%	89.69	-25.178	-21.919%
glass_blur	4	56.26 60.72	-9.12 -4.66	-13.949% -7.128%	46.931 50.453	-5.589 -2.067	-10.641% -3.935%	67.246 69.47	-4.964 -2.74	-6.875% -3.794%	79.558 97.964	-35.31 -16.904	-30.740% -14.716%
jpeg_compression	4	63.0	-2.38	-3.640%	50.978	-1.542	-3.935% -2.936%	70.719	-2.74	-2.065%	106.453	-8.415	-7.326%
contrast	4	58.0	-7.38	-11.288% -6.302%	49.07	-3.45	-6.569%	66.758	-5.452	-7.551%	92.122 99.231	-22.746	-19.802%
elastic_transform pixelate	4	61.26 55.17	-4.12 -10.21	-15.616%	50.048 46.796	-2.472 -5.724	-4.707% -10.899%	70.016 63.356	-2.194 -8.854	-3.039% -12.262%	74.516	-15.637 -40.352	-13.613% -35.129%
snow	4	52.96	-12.42	-18.997%	45.206	-7.314	-13.926%	63.471	-8.739	-12.103%	64.766	-50.102	-43.617%
frost fog	4	55.09 60.07	-10.29 -5.31	-15.739% -8.122%	47.194 49.793	-5.326 -2.727	-10.142% -5.192%	66.643 68.796	-5.567 -3.414	-7.710% -4.728%	77.255 100.214	-37.613 -14.654	-32.745% -12.757%
brightness	4	62.87	-2.51	-3.839%	50.906	-1.614	-3.072%	69.556	-2.654	-3.675%	107.822	-7.046	-6.134%
spatter saturate	4	57.89 61.49	-7.49 -3.89	-11.456% -5.950%	48.267 49.928	-4.253 -2.592	-8.098% -4.934%	66.915 69.298	-5.295 -2.912	-7.332% -4.033%	87.218 105.786	-27.65 -9.082	-24.071% -7.906%
corruption	severity	Δοο	VQ. Decrease	A Decrease Ratio	Δ.00	GQ/ Decrease	A Decrease Ratio	Δ.00	NLV	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	5	Acc 55.42	-9.96	-15.234%	Acc 47.806	-4.714	-8.976%	Acc 66.04	-6.17	-8.545%	81.486	-33.382	-29.061%
gaussian_noise	5	55.26	-10.12	-15.479%	47.925	-4.595	-8.749%	65.38	-6.83	-9.459%	81.184	-33.684	-29.324%
shot_noise speckle_noise	5 5	56.2 58.93	-9.18 -6.45	-14.041% -9.865%	47.694 49.428	-4.826 -3.092	-9.188% -5.888%	65.509 66.915	-6.701 -5.295	-9.280% -7.332%	84.695 94.778	-30.173 -20.09	-26.267% -17.489%
zoom_blur	5	49.38	-16.0	-24.472%	43.226	-9.294	-17.696%	55.117	-17.093	-23.671%	38.876	-75.992	-66.156%
defocus_blur motion_blur	5 5	58.32 56.58	-7.06 -8.8	-10.798% -13.460%	48.752 47.798	-3.768 -4.722	-7.175% -8.991%	66.987 65.408	-5.223 -6.802	-7.233% -9.419%	87.22 77.358	-27.648 -37.51	-24.070% -32.655%
glass_blur	5	53.52	-11.86	-18.140%	45.595	-6.925	-13.185%	65.825	-6.385	-8.843%	65.7	-49.168	-42.804%
gaussian_blur	5 5	57.11 61.04	-8.27	-12.649% -6.638%	47.941 50.334	-4.579 2.186	-8.719%	65.939 69.413	-6.271	-8.684% -3.873%	83.811 100.726	-31.057	-27.037% -12.312%
jpeg_compression contrast	5	50.97	-4.34 -14.41	-6.638% -22.040%	50.334 45.007	-2.186 -7.513	-4.162% -14.305%	69.413	-2.797 -11.567	-3.873% -16.019%	63.684	-14.142 -51.184	-12.312% -44.559%
elastic_transform	5	55.34	-10.04	-15.356%	45.58	-6.94	-13.215%	65.982	-6.228	-8.624%	71.187	-43.681	-38.027%
pixelate snow	5 5	52.58 54.05	-12.8 -11.33	-19.578% -17.329%	44.061 46.335	-8.459 -6.185	-16.106% -11.777%	60.471 63.758	-11.739 -8.452	-16.257% -11.705%	61.52 72.182	-53.348 -42.686	-46.443% -37.161%
frost	5	53.64	-11.74	-17.957%	47.019	-5.501	-10.475%	65.078	-7.132	-9.876%	72.184	-42.684	-37.159%
fog	5 5	56.8	-8.58	-13.123% 5.025%	47.13	-5.39 1.717	-10.263%	67.691	-4.519 3.386	-6.259%	86.937 105.541	-27.931	-24.316%
brightness spatter	5	61.5 54.89	-3.88 -10.49	-5.935% -16.045%	50.803 46.724	-1.717 -5.796	-3.269% -11.035%	68.824 65.494	-3.386 -6.716	-4.688% -9.300%	72.977	-9.327 -41.891	-8.120% -36.468%
saturate	5	59.13	-6.25	-9.559%	49.404	-3.116	-5.934%	66.069	-6.141	-8.505%	98.137	-16.731	-14.566%

Table 13: Performance and decrease ratio of Multiple Adapters on CLIP-BART against image corruptions given severity 1 to 5.

Corruption	S EIVC	11 30				00			NIT Y	D		C	
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	1	63.08	-2.22	-3.400%	50.334	-3.056	-5.724%	69.341	-0.069	-0.099%	108.775	-5.695	-4.975%
gaussian_noise shot_noise	1 1	63.96 64.1	-1.34 -1.2	-2.052% -1.838%	50.525 50.93	-2.865 -2.46	-5.367% -4.607%	69.556 69.628	0.146 0.218	0.211% 0.314%	112.055 111.893	-2.415 -2.577	-2.110% -2.251%
speckle_noise	1	64.28	-1.02	-1.562%	51.018	-2.372	-4.443%	69.556	0.146	0.211%	112.372	-2.098	-1.833%
zoom_blur defocus_blur	1	58.67 64.49	-6.63 -0.81	-10.153% -1.240%	47.822 50.692	-5.568 -2.698	-10.430% -5.054%	57.686 70.418	-11.724 1.008	-16.891% 1.452%	86.317 110.992	-28.153 -3.478	-24.594% -3.038%
motion_blur	1	64.31	-0.99	-1.516%	51.01	-2.38	-4.458%	69.901	0.491	0.707%	110.947	-3.523	-3.078%
glass_blur gaussian_blur	1 1	64.43 65.1	-0.87 -0.2	-1.332% -0.306%	51.057 51.169	-2.333 -2.221	-4.369% -4.161%	70.561 70.217	1.151 0.807	1.659% 1.162%	112.582 113.692	-1.888 -0.778	-1.649% -0.679%
jpeg_compression	1	64.7	-0.2	-0.919%	51.312	-2.221	-3.892%	69.958	0.548	0.790%	113.092	-0.778	-0.469%
contrast	1 1	63.91	-1.39	-2.129%	50.167	-3.223	-6.037%	69.657	0.247	0.356%	111.583	-2.887	-2.522%
elastic_transform pixelate	1	64.63 61.72	-0.67 -3.58	-1.026% -5.482%	51.216 49.412	-2.174 -3.978	-4.071% -7.451%	69.427 68.466	0.017 -0.944	0.025% -1.361%	112.058 102.565	-2.412 -11.905	-2.107% -10.400%
snow	1	60.6	-4.7	-7.198%	48.593	-4.797	-8.985%	68.193	-1.217	-1.753%	100.062	-14.408	-12.587%
frost fog	1	61.74 63.34	-3.56 -1.96	-5.452% -3.002%	49.213 50.596	-4.177 -2.794	-7.824% -5.233%	68.394 69.241	-1.016 -0.169	-1.464% -0.244%	103.506 110.445	-10.964 -4.025	-9.578% -3.516%
brightness	1	64.83	-0.47	-0.720%	51.177	-2.213	-4.146%	70.848	1.438	2.072%	113.991	-0.479	-0.419%
spatter saturate	1	64.72 62.48	-0.58 -2.82	-0.888% -4.319%	51.081 50.588	-2.309 -2.802	-4.324% -5.248%	70.461 68.753	1.051 -0.657	1.514% -0.947%	113.572 110.804	-0.898 -3.666	-0.785% -3.203%
corruption	severity		VQ	A		GQ.	A		NLV	R		Captio	n
-		Acc	Decrease	Decrease Ratio	Acc 49.889	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	2 2	62.36 63.33	-2.94 -1.97	-4.502% -3.017%	50.183	-3.501 -3.207	-6.558% -6.007%	68.466 69.054	-0.944 -0.356	-1.361% -0.513%	106.537 109.084	-7.933 -5.386	-6.930% -4.705%
shot_noise	2	63.37	-1.93	-2.956%	50.358	-3.032	-5.679%	68.724	-0.686	-0.988%	109.293	-5.177	-4.523%
speckle_noise zoom_blur	2 2	63.79 55.81	-1.51 -9.49	-2.312% -14.533%	50.668 45.436	-2.722 -7.954	-5.099% -14.897%	68.695 61.633	-0.715 -7.777	-1.030% -11.204%	110.266 70.867	-4.204 -43.603	-3.673% -38.091%
defocus_blur	2	63.91	-1.39	-2.129%	50.27	-3.12	-5.843%	69.485	0.075	0.108%	108.924	-5.546	-4.845%
motion_blur	2	63.24	-2.06	-3.155%	50.533	-2.857	-5.352%	69.37	-0.04	-0.058%	108.19	-6.28	-5.487%
glass_blur gaussian_blur	2 2 2	63.25 64.24	-2.05 -1.06	-3.139% -1.623%	50.517 50.429	-2.873 -2.961	-5.382% -5.545%	69.7 69.915	0.29 0.505	0.418% 0.728%	107.653 109.896	-6.817 -4.574	-5.955% -3.996%
jpeg_compression	2	64.64	-0.66	-1.011%	51.272	-2.118	-3.967%	69.7	0.29	0.418%	113.017	-1.453	-1.269%
contrast elastic_transform	2 2	63.0 61.58	-2.3 -3.72	-3.522% -5.697%	50.024 49.229	-3.366 -4.161	-6.305% -7.794%	68.781 66.327	-0.629 -3.083	-0.906% -4.442%	109.711 97.907	-4.759 -16.563	-4.158% -14.469%
pixelate	2	61.36	-3.94	-6.034%	49.094	-4.296	-8.047%	65.494	-3.916	-5.641%	99.54	-14.93	-13.042%
snow frost	2 2	57.58 58.54	-7.72 -6.76	-11.822% -10.352%	46.152 47.384	-7.238 -6.006	-13.557% -11.249%	65.71 66.585	-3.7 -2.825	-5.331% -4.070%	88.051 91.664	-26.419 -22.806	-23.079% -19.923%
fog	2	62.78	-2.52	-3.859%	49.968	-3.422	-6.409%	65.911	-3.499	-5.041%	109.097	-5.373	-4.693%
brightness	2 2	64.17 61.42	-1.13 -3.88	-1.730% -5.942%	50.882 49.595	-2.508 -3.795	-4.697% -7.109%	70.159 68.25	0.749 -1.16	1.080% -1.671%	113.574 104.378	-0.896 -10.092	-0.782% -8.816%
spatter saturate	2	59.52	-5.78	-8.851%	49.393	-3.947	-7.392%	67.03	-2.38	-3.428%	104.378	-9.625	-8.408%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	3	61.63	-3.67	-5.620%	49.952	-3.438	-6.439%	68.179	-1.231	-1.774%	103.223	-11.247	-9.825%
gaussian_noise	3	61.83	-3.47	-5.314% -5.590%	49.436	-3.954 -3.477	-7.407%	67.848	-1.562	-2.250% -1.816%	103.956 105.464	-10.514	-9.185%
shot_noise speckle_noise	3	61.65 62.13	-3.65 -3.17	-4.855%	49.913 49.634	-3.756	-6.513% -7.034%	68.15 67.963	-1.26 -1.447	-2.084%	103.464	-9.006 -9.782	-7.868% -8.545%
zoom_blur	3	53.22	-12.08	-18.499%	43.671	-9.719	-18.203%	59.495	-9.915	-14.285%	57.831	-56.639	-49.479%
defocus_blur motion_blur	3	62.13 61.22	-3.17 -4.08	-4.855% -6.248%	49.809 49.92	-3.581 -3.47	-6.707% -6.498%	68.595 68.494	-0.815 -0.916	-1.174% -1.319%	102.018 100.004	-12.452 -14.466	-10.878% -12.638%
glass_blur	3	58.46	-6.84	-10.475%	46.923	-6.467	-12.112%	66.915	-2.495	-3.594%	86.333	-28.137	-24.580%
gaussian_blur	3	62.75 63.91	-2.55 -1.39	-3.905% -2.129%	50.342 51.002	-3.048 -2.388	-5.709% -4.473%	68.839 69.284	-0.571 -0.126	-0.823% -0.182%	104.781 110.971	-9.689 -3.499	-8.464% -3.057%
jpeg_compression contrast	3	61.82	-3.48	-5.329%	49.364	-4.026	-7.541%	67.92	-1.49	-2.146%	105.282	-9.188	-8.027%
elastic_transform	3	63.33	-1.97	-3.017%	50.517	-2.873	-5.382%	69.399	-0.011	-0.016%	107.57	-6.9	-6.028%
pixelate snow	3	58.99 55.69	-6.31 -9.61	-9.663% -14.717%	47.448 45.588	-5.942 -7.802	-11.130% -14.614%	64.518 64.203	-4.892 -5.207	-7.047% -7.502%	90.252 80.591	-24.218 -33.879	-21.156% -29.597%
frost	3	56.14	-9.16	-14.028%	45.548	-7.842	-14.689%	64.877	-4.533	-6.530%	81.478	-32.992	-28.822%
fog brightness	3	61.56 63.57	-3.74 -1.73	-5.727% -2.649%	49.277 50.557	-4.113 -2.833	-7.705% -5.307%	68.695 69.614	-0.715 0.204	-1.030% 0.294%	105.695 111.594	-8.775 -2.876	-7.666% -2.513%
spatter	3	60.04	-5.26	-8.055%	48.569	-4.821	-9.030%	67.662	-1.748	-2.519%	97.652	-16.818	-14.692%
saturate	3	64.3	-1.0 VQ	-1.531%	50.572	-2.818 GQA	-5.277%	69.341	-0.069 NLV	-0.099%	112.884	-1.586 Captio	-1.385%
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	4	58.9 59.01	-6.4 -6.29	-9.801% -9.632%	48.744 48.768	-4.646 -4.622	-8.702% -8.658%	67.332 67.389	-2.078 -2.021	-2.994% -2.912%	94.511 95.89	-19.959 -18.58	-17.436% -16.231%
shot_noise	4	58.67	-6.63	-10.153%	48.696	-4.694	-8.792%	65.222	-4.188	-6.034%	94.179	-20.291	-17.726%
speckle_noise zoom_blur	4	60.52 51.14	-4.78 -14.16	-7.320% -21.685%	49.459 42.789	-3.931 -10.601	-7.362% -19.856%	67.088 58.045	-2.322 -11.365	-3.346% -16.374%	101.029 47.052	-13.441 -67.418	-11.742% -58.896%
defocus_blur	4	60.13	-5.17	-7.917%	49.03	-4.36	-8.166%	66.729	-2.681	-3.863%	94.96	-19.51	-17.044%
motion_blur	4	58.83	-6.47	-9.908%	48.346	-5.044	-9.447%	66.183	-3.227	-4.649% -4.855%	87.903	-26.567	-23.209%
glass_blur gaussian_blur	4	56.46 60.74	-8.84 -4.56	-13.538% -6.983%	45.794 49.459	-7.596 -3.931	-14.227% -7.362%	66.04 67.676	-3.37 -1.734	-4.855% -2.498%	80.082 97.068	-34.388 -17.402	-30.041% -15.202%
jpeg_compression	4	62.83	-2.47	-3.783%	50.286	-3.104	-5.813%	68.408	-1.002	-1.443%	108.016	-6.454	-5.638%
contrast elastic_transform	4	57.75 61.12	-7.55 -4.18	-11.562% -6.401%	47.154 48.489	-6.236 -4.901	-11.681% -9.179%	64.346 68.911	-5.064 -0.499	-7.295% -0.720%	91.244 99.838	-23.226 -14.632	-20.290% -12.783%
pixelate	4	55.03	-10.27	-15.727%	44.697	-8.693	-16.282%	61.332	-8.078	-11.638%	74.043	-40.427	-35.317%
snow	4	52.63	-12.67	-19.403%	43.512	-9.878	-18.501%	61.964	-7.446	-10.728%	65.313	-49.157	-42.943%
frost fog	4	55.3 59.96	-10.0 -5.34	-15.314% -8.178%	45.842 48.545	-7.548 -4.845	-14.138% -9.075%	64.963 68.624	-4.447 -0.786	-6.406% -1.133%	78.01 100.679	-36.46 -13.791	-31.851% -12.048%
brightness	4	62.52	-2.78	-4.257%	50.684	-2.706	-5.069%	68.236	-1.174	-1.691%	108.714	-5.756	-5.028%
spatter saturate	4	58.08 61.53	-7.22 -3.77	-11.057% -5.773%	46.995 49.245	-6.395 -4.145	-11.978% -7.764%	66.011 68.394	-3.399 -1.016	-4.897% -1.464%	86.949 106.722	-27.521 -7.748	-24.042% -6.769%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	5	55.27	-10.03	-15.360%	46.557	-6.833	-12.797%	64.504	-4.906	-7.068%	80.382	-34.088	-29.779%
gaussian_noise	5	55.26	-10.04	-15.375% -14.089%	46.279	-7.111 6.504	-13.319%	63.801	-5.609 5.236	-8.081% 7.544%	80.15	-34.32	-29.982%
shot_noise speckle_noise	5 5	56.1 58.68	-9.2 -6.62	-14.089% -10.138%	46.796 48.315	-6.594 -5.075	-12.351% -9.506%	64.174 64.978	-5.236 -4.432	-7.544% -6.386%	83.148 93.494	-31.322 -20.976	-27.362% -18.324%
zoom_blur	5	49.15	-16.15	-24.732%	40.825	-12.565	-23.534%	56.509	-12.901	-18.586%	38.745	-75.725	-66.153%
defocus_blur motion_blur	5 5	58.27 56.7	-7.03 -8.6	-10.766% -13.170%	47.623 46.828	-5.767 -6.562	-10.802% -12.291%	65.753 64.475	-3.657 -4.935	-5.269% -7.109%	86.249 76.844	-28.221 -37.626	-24.654% -32.870%
glass_blur	5	53.63	-11.67	-17.871%	44.244	-9.146	-17.131%	64.303	-5.107	-7.358%	67.18	-47.29	-41.312%
gaussian_blur	5	57.38	-7.92	-12.129%	46.51	-6.88	-12.887%	64.992	-4.418	-6.365%	83.254	-31.216	-27.270%
jpeg_compression contrast	5 5	60.82 50.5	-4.48 -14.8	-6.861% -22.665%	49.412 43.83	-3.978 -9.56	-7.451% -17.905%	68.222 59.15	-1.188 -10.26	-1.712% -14.781%	101.351 63.33	-13.119 -51.14	-11.460% -44.676%
elastic_transform	5	54.98	-10.32	-15.804%	44.323	-9.067	-16.982%	65.294	-4.116	-5.931%	71.333	-43.137	-37.684%
pixelate	5 5	52.41	-12.89 -11.55	-19.740%	43.425	-9.965 8.685	-18.664%	59.079	-10.331	-14.885%	60.88	-53.59 43.003	-46.816%
snow frost	5	53.75 53.83	-11.55 -11.47	-17.688% -17.565%	44.705 44.88	-8.685 -8.51	-16.267% -15.939%	62.552 63.643	-6.858 -5.767	-9.880% -8.309%	71.467 73.985	-43.003 -40.485	-37.567% -35.367%
fog	5	56.56	-8.74	-13.384%	46.065	-7.325	-13.721%	65.71	-3.7	-5.331%	85.879	-28.591	-24.976%
brightness spatter	5 5	61.34 54.88	-3.96 -10.42	-6.064% -15.957%	49.626 45.134	-3.764 -8.256	-7.049% -15.463%	67.935 64.03	-1.475 -5.38	-2.126% -7.750%	105.201 73.135	-9.269 -41.335	-8.098% -36.110%
saturate	5	59.13	-6.17	-9.449%	48.664	-4.726	-8.851%	64.461	-4.949	-7.130%	98.585	-15.885	-13.877%
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Table 14: Performance and decrease ratio of Multiple Compacters on CLIP-BART against image corruptions given severity 1 to 5.

Corruption Severity Acc Decrease Decrease Ratio Acc Decrease Ratio Acc Decrease Decrease Ratio Acc Decrease Ratio	-5.902 -3.91 -2.938 -2.723 -2.8092 -3.131 -4.271 -3.272 -0.785 -0.986 -2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354 -4.354	cerease Ratic -5.125% -3.395% -3.395% -2.552% -2.552% -2.2552% -2.2552% -2.2552% -2.2552% -2.252% -2.160% -0.81% -0.85
Bandaman Control Con	-3.91 -2.938 -2.723 -28.092 -3.131 -4.271 -3.172 -0.785 -0.986 -2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.4664 -4.354 Caption Decrease Dec -3.42 -6.414 -4.354 -6.415 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -5.347 -17.421 -15.459 -27.284 -5.347 -17.421 -18.927 -18.927 -18.927 Caption Decrease Dec -11.508 -1.17.421 -1.5459 -2.23.998 -5.347 -1.7.22 -10.859 -5.347 -1.7.21 -1.5459 -27.2844 -5.347 -1.17.421 -1.5459 -27.2844 -5.347 -1.17.421 -1.5459 -27.2844 -5.347 -1.17.421 -1.54.59 -27.2844 -5.347 -1.17.421 -1.54.59 -27.2844 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.22 -10.859 -5.347 -1.17.20 -1.17.20 -1.17.206 -1.17.206 -1.17.206 -1.17.206	3.395% -2.352% -2.2552% -2.364% -2.4.394% -2.4.394% -2.4.394% -2.1719% -3.709% -2.841% -0.681% -0.856% -1.10.27% -1.3.161% -1.0.431% -3.262% -0.720% -1.273% -3.781% -2.2757% -1.3.161% -1.0.431% -1.5.213% -3.781% -2.3.692% -1.273% -3.781% -2.3.692% -1.3.1344% -5.310% -5.310% -5.313% -1.3.242% -3.3.808% -1.3.22% -3.3.494% -1.3.128% -1.3.424% -2.3.892% -2.3.899% -4.643% -1.495% -9.499% -7.751% -2.2.899% -7.999%
Short Shor	-2.938 -2.723 -28.092 -3.131 -4.271 -3.272 -0.785 -0.986 -2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354 Caption Decrease Dec -9.528 -6.342 -6.414 -4.687 -4.1724 -6.115 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -2.7.284 -23.998 -5.347 -1.722 -10.859 -8.927 Caption Decrease Dec -11.508 -10.907 -11.206 -11.508 -10.907 -11.206 -11.038	-2.552% -2.364% -24.394% -2.719% -2.3641% -0.816% -0.816% -0.816% -10.431% -0.227% -11.027% -13.161% -10.23% -3.781% -2.227% -1.273% -3.781% -2.227% -1.273% -3.781% -2.227% -1.273% -
	-28.092 -3.131 -4.271 -3.272 -0.785 -0.986 -2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354	2-24.394% -2-24.394% -2.719% -3.709% -2.841% -0.681% -0.856% -2.927% -11.027% -13.161% -10.431% -3.262% -0.720% -3.781% -ecrease Ratic -8.274% -5.570% -4.070% -3.36.231% -5.310% -5.310% -5.310% -5.310% -5.312% -6.236% -1.8122% -1.3424% -2.0.839% -4.643% -1.495% -9.429% -7.751%
Decomposition Decompositio	3.131 4.271 3.272 0.785 0.986 2.487 3.371 -12.698 -15.156 -12.013 3.757 0.829 -1.466 4.354 Caption Decrease Dec 4.387 -4.1724 -6.414 4.687 -41.724 -6.815 -6.837 -7.181 4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -5.347 -1.722 -10.859 -5.347 -1.722 -10.859 -5.347 -1.722 -10.859 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -5.347 -1.758 -1.7	2.719% -3.709% -2.841% -0.681% -0.856% -2.160% -2.160% -13.161% -10.431% -3.262% -0.720% -1.1.027% -1.3.161% -5.570% -5.570% -5.570% -5.570% -5.570% -6.236% -3.404% -1.41% -3.808% -3.494% -1.5.151.128% -3.494% -1.495% -3.494% -1.751%
glass.blur 1 64.3	-3.272 -0.785 -0.986 -2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354 Caption Decrease Dec -9.528 -6.342 -6.414 -4.687 -41.724 -6.815 -6.837 -7.181 -4.023 -17.421 -15.459 -27.284 -5.347 -17.421 -15.459 -27.284 -5.347 -17.450 -17.459 -27.88 -5.347 -1.758 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -5.347 -1.7589 -1.7589 -5.347 -1.7589	2.841% -0.681% -0.856% -0.856% -0.856% -2.160% -0.856% -1.10.027% -110.027% -13.161% -13.161% -13.161% -13.262% -0.720% -1.273% -3.781% -2.273% -3.781% -2.273% -3.781% -2.2362% -3.3494% -1.3424% -2.23.692% -1.3424% -2.23.692% -1.495% -9.429% -7.751%
gaussian_blur 1	-0.785 -0.986 -2.487 -3.371 -12.698 -12.698 -13.156 -0.829 -1.466 -4.354 -9.528 -6.342 -6.414 -4.687 -41.724 -6.115 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -5.347 -1.722 -10.859 -8.927 Caption Decrease Dec	-0.681% -0.856% -2.160% -2.927% -1.10.27% -13.161% -10.431% -3.262% -0.720% -1.273% -3.781% -8.274% -5.507% -5.570% -4.070% -3.6.231% -5.310% -5.310% -5.313% -6.236% -1.312% -6.236% -1.312% -6.236% -1.312% -6.236% -1.3144% -7.751%
Corruption Severity Corruption Corruption Severity Corruption Severity Corruption Severity Corruption Sever	-2.487 -3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354 Caption Decrease Dec -9.528 -6.342 -6.414 -4.687 -41.724 -6.115 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -5.347 -1.17.421 -15.459 -27.284 -5.347 -1.17.421 -18.8927 -1.17.421 -19.859 -27.884 -5.347 -1.17.421 -1.5.459 -27.884 -1.5.459 -1.5.459 -27.84 -1.5.459 -1.	2.160% - 2.927% - 11.027% - 13.161% - 10.431% - 10.431% - 3.262% - 0.720% - 1.273% - 3.781% - 8.274% - 5.507% - 4.273% - 3.581% - 5.507% - 4.070% - 36.231% - 5.310% - 1.822% - 3.808% - 1.832% - 3.494% - 23.692% - 20.839% - 4.643% - 7.751% - 20.839% - 1.952% - 20.839
clastic_transform 1 64.33 -0.58 -0.894% 52.433 -0.317 -0.6015 69.399 -0.0051 -0.074% 111.789	-3.371 -12.698 -15.156 -12.013 -3.757 -0.829 -1.466 -4.354 Caption Decrease -9.528 -6.342 -6.342 -6.414 -4.687 -4.1724 -6.115 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -23.998 -5.347 -17.421 -17.421 -17.421 -17.421 -18.439 -19.4023 -17.421 -19.4023 -17.421 -19.4023 -10.899 -10.899 -10.899 -10.899 -10.997 -11.206 -11.508 -10.997 -11.206 -11.038	2-927% -11.027% -13.161% -13.161% -10.431% -0.720% -1.273% -3.781% -2.273% -3.781% -2.273% -3.781% -2.213% -3.308% -4.070% -3.36.231% -5.310% -5.310% -5.310% -5.310% -1.812% -1.424% -20.839% -1.4453% -1.495% -9.429% -7.751%
Snow	-15.156 -12.013 -3.757 -0.829 -1.466 -4.354 Caption Decrease Decrease -9.528 -6.342 -6.342 -6.414 -4.687 -41.724 -6.115 -6.837 -7.181 -4.386 -2.11 -4.023 -17.421 -15.459 -27.284 -23.998 -5.347 -1.722 -10.892 -11.508 -10.907 -11.206 -11.508 -10.907 -11.206 -11.038	-13.161% -10.431% -10.431% -0.720% -1.273% -3.781% -1.273% -3.781% -2.781% -2.781% -2.781% -2.781% -2.5.570% -4.070% -3.6.231% -5.310% -5.310% -5.310% -5.310% -5.312% -1.3.424% -20.839% -4.643% -1.4.95% -9.429% -7.751%
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gaussian_blur 4 60.42 -4.49 -6.917% 50.286 -2.464 -4.671% 67.059 -2.391 -3.443% 98.009	-17.151 -	-14.893%
jpeg_compression 4 62.67 -2.24 -3.451% 50.684 -2.066 -3.917% 68.652 -0.798 -1.149% 108.396 contrast 4 58.04 -6.87 -10.584% 47.965 -4.785 -9.072% 64.92 -4.53 -6.522% 92.385		-5.873% -19.777%
elastic_transform 4 61.07 -3.84 -5.916% 49.308 -3.442 -6.525% 68.164 -1.286 -1.851% 99.588	-15.572 -	-13.522%
pixelate 4 54.99 -9.92 -15.283% 45.969 -6.781 -12.855% 60.471 -8.979 -12.929% 73.948 snow 4 52.96 -11.95 -18.410% 44.936 -7.814 -14.814% 61.605 -7.845 -11.296% 65.835		-35.786% -42.832%
frost 4 55.0 -9.91 -15.267% 46.542 -6.208 -11.770% 64.906 -4.544 -6.543% 76.957	-38.203 -	-33.174%
fog 4 59.78 -5.13 -7.903% 49.451 -3.299 -6.253% 67.647 -1.803 -2.595% 101.781 brightness 4 62.56 -2.35 -3.620% 50.421 -2.329 -4.414% 68.107 -1.343 -1.934% 109.146		-11.618% -5.222%
spatter 4 57.58 -7.33 -11.293% 48.195 -4.555 -8.635% 65.294 -4.156 -5.985% 85.615 saturate 4 61.16 -3.75 -5.777% 49.666 -3.084 -5.846% 67.834 -1.616 -2.327% 106.231	-29.545 -	-25.656% -7.754%
corruption cavarity VQA GQA NLVR	Caption	
		-30.198%
gaussian_noise 5 55.18 -9.73 -14.990% 47.098 -5.652 -10.714% 64.49 -4.96 -7.142% 81.337	-33.823 -	-29.370%
shot_noise 5 55.66 -9.25 -14.251% 47.146 -5.604 -10.624% 63.959 -5.491 -7.907% 84.001 speckle_noise 5 58.45 -6.46 -9.952% 48.895 -3.855 -7.308% 65.451 -3.999 -5.758% 93.927	-21.233 -	-27.057% -18.438%
zoom_blur 5 48.81 -16.1 -24.804% 42.129 -10.621 -20.134% 54.428 -15.022 -21.630% 40.35 defocus blur 5 58.05 -6.86 -10.568% 48.799 -3.951 -7.489% 64.447 -5.003 -7.204% 86.581	-74.81 -	-64.962% -24.816%
motion_blur 5 56.29 -8.62 -13.280% 47.678 -5.072 -9.614% 63.672 -5.778 -8.320% 77.254	-37.906 -	-32.916%
glass_blur 5 53.48 -11.43 -17.609% 44.467 -8.283 -15.703% 63.643 -5.807 -8.362% 66.264	-48.896 -	-42.459% -27.529%
jpeg_compression 5 60.47 -4.44 -6.840% 50.294 -2.456 -4.656% 68.064 -1.386 -1.996% 100.487	-14.673 -	-12.741%
contrast 5 50.92 -13.99 -21.553% 45.341 -7.409 -14.045% 59.466 -9.984 -14.376% 64.146 elastic_transform 5 55.32 -9.59 -14.774% 45.222 -7.528 -14.271% 64.748 -4.702 -6.770% 72.046	-51.014	-44.298% -37.438%
CHASTIC BERNOLDER 3 33.32 "7.37 "14.77470 43.242 "7.326 "14.2/170 04.746 "4.702 "0.770% 72.040		-37.438% -46.633%
pixelate 5 52.54 -12.37 -19.057% 43.894 -8.856 -16.788% 58.045 -11.405 -16.422% 61.457	-53.703 -	
pixelate 5 52.54 -12.37 -19.057% 43.894 -8.856 -16.788% 58.045 -11.405 -16.422% 61.457 snow 5 53.86 -11.05 -17.024% 45.921 -6.829 -12.945% 62.48 -6.97 -10.036% 71.873	-43.287 -	-37.588% -36.405%
pixelate 5 52.54 -12.37 -19.057% 43.894 -8.856 -16.788% 58.045 -11.405 -16.422% 61.437 snow 5 53.86 -11.05 -17.024% 45.921 -6.829 -12.945% 62.48 -6.97 -10.036% 71.873 fog 5 53.91 -11.0 -16.947% 46.287 -6.463 -12.252% 64.806 -4.644 -6.688% 73.236 fog 5 56.37 -8.54 -13.157% 46.979 -5.771 -10.941% 65.006 -4.444 -6.398% 87.801	-43.287 - -41.924 - -27.359 -	-36.405% -23.757%
pixelate 5 52.54 -12.37 -19.057% 43.894 -8.856 -16.788% 58.045 -11.405 -16.422% 61.457 snow 5 53.86 -11.05 -17.024% 45.921 -6.829 -12.945% 62.48 -6.97 -10.036% 71.873 frost 5 53.91 -11.0 -16.947% 46.287 -6.463 -12.252% 64.806 -4.644 -6.688% 73.236	-43.287 - -41.924 - -27.359 - -9.308	-36.405%

Table 15: Performance and decrease ratio of Multiple LoRA on CLIP-BART against image corruptions given severity 1 to 5.

tions given	I SCVC	iity .	1 10 5.										
corruption	severity		VQ.	A Decrease Ratio		GQ/ Decrease			NLV Decrease		CID	Captio	
		Acc	Decrease		Acc		Decrease Ratio	Acc		Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	1	63.12 64.13	-2.32 -1.31	-3.545% -2.002%	51.662 52.011	-0.388 -0.039	-0.746% -0.074%	50.337 50.825	-0.983 -0.495	-1.915% -0.964%	109.536 112.679	-5.871 -2.728	-5.087% -2.363%
gaussian_noise shot noise	1	64.13	-1.34	-2.048%	51.701	-0.039	-0.670%	50.466	-0.493	-1.663%	112.579	-2.728	-2.510%
speckle_noise	1	64.18	-1.26	-1.925%	51.868	-0.182	-0.349%	50.682	-0.638	-1.244%	112.6	-2.807	-2.432%
zoom_blur	1	58.12	-7.32	-11.186%	48.958	-3.092	-5.939%	50.251	-1.069	-2.083%	86.91	-28.497	-24.693%
defocus_blur	1	64.35 64.09	-1.09 -1.35	-1.666% -2.063%	51.98 51.646	-0.07 -0.404	-0.135% -0.777%	50.911 51.816	-0.409 0.496	-0.796% 0.966%	112.669 109.514	-2.738 -5.893	-2.373% -5.106%
motion_blur glass_blur	1	64.13	-1.33	-2.003%	51.040	-0.404	-0.105%	51.055	-0.265	-0.516%	111.24	-4.167	-3.610%
gaussian_blur	1	65.0	-0.44	-0.672%	51.884	-0.166	-0.318%	51.73	0.41	0.798%	114.48	-0.927	-0.803%
jpeg_compression	1	64.89	-0.55	-0.840%	51.829	-0.221	-0.425%	50.825	-0.495	-0.964%	113.78	-1.627	-1.410%
contrast	1	63.63	-1.81	-2.766%	52.147	0.097	0.186%	51.184	-0.136	-0.265%	112.217	-3.19	-2.764%
elastic_transform pixelate	1 1	64.63 61.31	-0.81 -4.13	-1.238% -6.311%	52.123 50.62	0.073 -1.43	0.140% -2.747%	50.825 50.868	-0.495 -0.452	-0.964% -0.880%	112.606 103.256	-2.801 -12.151	-2.427% -10.529%
snow	1	60.23	-5.21	-7.961%	49.467	-2.583	-4.962%	51.012	-0.432	-0.600%	103.230	-14.114	-12.230%
frost	1	61.65	-3.79	-5.792%	50.453	-1.597	-3.068%	50.466	-0.854	-1.663%	103.413	-11.994	-10.393%
fog	1	63.41	-2.03	-3.102%	51.932	-0.118	-0.227%	51.069	-0.251	-0.488%	111.682	-3.725	-3.228%
brightness	1	65.16	-0.28	-0.428%	51.956	-0.094	-0.181%	51.471	0.151	0.295%	114.623	-0.784	-0.679%
spatter saturate	1	64.6 62.62	-0.84 -2.82	-1.284% -4.309%	52.107 50.843	0.057 -1.207	0.109% -2.319%	51.457 51.687	0.137 0.367	0.267% 0.714%	113.683 111.041	-1.724 -4.366	-1.494% -3.783%
Saturate	1	02.02			30.043			31.007			111.041		
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	2	62.37	-3.07	-4.691%	51.065	-0.985	-1.892%	50.825	-0.495	-0.964%	107.512	-7.895	-6.841%
gaussian_noise	2	63.44	-2.0	-3.056%	50.986	-1.064	-2.044%	50.524	-0.796	-1.551%	110.583	-4.824	-4.180%
shot_noise	2	63.01	-2.43	-3.713%	51.081	-0.969	-1.861%	50.28	-1.04	-2.027%	109.63	-5.777	-5.006%
speckle_noise	2	63.76	-1.68	-2.567%	51.526	-0.524	-1.006%	50.825	-0.495	-0.964%	110.645	-4.762	-4.126%
zoom_blur	2	55.11	-10.33	-15.785%	47.591	-4.459	-8.567%	50.309	-1.011	-1.971%	71.368	-44.039	-38.160%
defocus_blur	2	63.52	-1.92	-2.934%	51.479	-0.571	-1.097%	51.27	-0.05	-0.097%	109.676	-5.731	-4.966%
motion_blur	2 2	63.03 62.88	-2.41 -2.56	-3.683% -3.912%	51.685 51.288	-0.365 -0.762	-0.700% -1.464%	50.682 50.696	-0.638 -0.624	-1.244% -1.216%	107.564 108.29	-7.843 -7.117	-6.796% -6.167%
glass_blur gaussian blur	2	63.93	-2.56 -1.51	-3.912% -2.307%	51.288	-0.762 -0.126	-1.464% -0.242%	51.17	-0.624 -0.15	-1.216% -0.293%	111.553	-7.117 -3.854	-6.16 <i>1%</i> -3.339%
jpeg_compression	2	64.62	-0.82	-1.253%	51.765	-0.126	-0.548%	50.825	-0.495	-0.964%	113.349	-2.058	-1.783%
contrast	2	63.1	-2.34	-3.576%	51.463	-0.587	-1.128%	51.27	-0.05	-0.097%	109.559	-5.848	-5.067%
elastic_transform	2	61.44	-4.0	-6.112%	50.501	-1.549	-2.976%	50.438	-0.882	-1.719%	98.119	-17.288	-14.980%
pixelate	2	60.91	-4.53	-6.922%	50.747	-1.303	-2.503%	50.495	-0.825	-1.607%	100.503	-14.904	-12.914%
snow	2	57.53	-7.91 7.52	-12.087% -11.491%	47.567	-4.483 3.251	-8.613% 6.245%	50.122	-1.198	-2.334% -2.838%	89.818	-25.589	-22.173% -20.434%
frost fog	2 2	57.92 62.57	-7.52 -2.87	-11.491% -4.386%	48.799 51.805	-3.251 -0.245	-6.245% -0.471%	49.864 50.438	-1.456 -0.882	-2.838% -1.719%	91.825 110.05	-23.582 -5.357	-20.434% -4.642%
brightness	2	64.31	-1.13	-1.727%	51.733	-0.243	-0.609%	51.213	-0.107	-0.209%	114.086	-1.321	-1.144%
spatter	2	61.08	-4.36	-6.663%	50.676	-1.374	-2.640%	51.227	-0.093	-0.181%	105.197	-10.21	-8.847%
saturate	2	59.48	-5.96	-9.108%	49.928	-2.122	-4.076%	50.797	-0.523	-1.020%	105.874	-9.533	-8.260%
corruption	severity		VQ.			GQ/			NLV			Captio	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	3	61.46 61.81	-3.98 -3.63	-6.082% -5.547%	50.652 50.533	-1.398 -1.517	-2.686% -2.915%	50.093 50.983	-1.227 -0.337	-2.390% -0.656%	104.261 105.488	-11.146 -9.919	-9.658% -8.594%
shot_noise	3	61.63	-3.81	-5.822%	50.286	-1.764	-2.915% -3.389%	50.538	-0.337	-0.656%	105.488	-9.919 -9.783	-8.394% -8.477%
speckle_noise	3	61.7	-3.74	-5.715%	50.708	-1.342	-2.579%	50.194	-1.126	-2.195%	105.934	-9.473	-8.208%
zoom_blur	3	52.57	-12.87	-19.667%	46.247	-5.803	-11.148%	49.993	-1.327	-2.586%	57.065	-58.342	-50.553%
defocus_blur	3	61.82	-3.62	-5.532%	50.739	-1.311	-2.518%	50.538	-0.782	-1.523%	102.845	-12.562	-10.885%
motion_blur	3	61.12	-4.32	-6.601%	50.962	-1.088	-2.090%	50.266	-1.054	-2.055%	101.771	-13.636	-11.816%
glass_blur	3	58.06	-7.38	-11.278%	48.561	-3.489	-6.703%	50.323	-0.997	-1.943%	87.648	-27.759 -9.798	-24.053%
gaussian_blur jpeg_compression	3	62.43 63.92	-3.01 -1.52	-4.600% -2.323%	50.835 51.638	-1.215 -0.412	-2.335% -0.792%	50.725 50.667	-0.595 -0.653	-1.160% -1.272%	105.609 112.413	-9.798 -2.994	-8.490% -2.594%
contrast	3	61.78	-3.66	-5.593%	50.517	-1.533	-2.946%	50.208	-1.112	-2.167%	105.746	-9.661	-8.371%
elastic_transform	3	63.18	-2.26	-3.454%	51.701	-0.349	-0.670%	50.868	-0.452	-0.880%	107.495	-7.912	-6.855%
pixelate	3	58.85	-6.59	-10.070%	48.784	-3.266	-6.276%	50.696	-0.624	-1.216%	90.566	-24.841	-21.524%
snow	3	55.67	-9.77	-14.930%	47.233	-4.817	-9.254%	50.71	-0.61	-1.188%	81.606	-33.801	-29.289%
frost	3	55.75 61.33	-9.69	-14.807%	47.106	-4.944 -0.77	-9.498% -1.479%	50.94 50.969	-0.38 -0.351	-0.740%	82.465 106.73	-32.942 -8.677	-28.544% -7.518%
fog brightness	3	63.5	-4.11 -1.94	-6.281% -2.965%	51.28 51.606	-0.77	-0.853%	50.624	-0.696	-0.684% -1.355%	111.08	-8.677 -4.327	-7.518% -3.749%
spatter	3	59.41	-6.03	-9.215%	49.555	-2.495	-4.794%	50.524	-0.796	-1.551%	98.194	-17.213	-14.915%
saturate	3	64.37	-1.07	-1.635%	51.566	-0.484	-0.929%	51.342	0.022	0.043%	113.511	-1.896	-1.643%
corruption	severity		VQ.			GQ/			NLV			Captio	
Сотирион		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	4	58.99 59.3	-6.45 -6.14	-9.856% -9.383%	49.825 49.269	-2.225 -2.781	-4.275% -5.344%	49.519	-1.801 -1.657	-3.509% -3.229%	95.12 96.911	-20.287 -18.496	-17.579%
gaussian_noise shot noise	4	59.3 58.57	-6.14 -6.87	-9.383% -10.498%	49.269	-2.781 -2.312	-5.344% -4.443%	49.663 49.677	-1.657 -1.643	-3.229% -3.201%	95.136	-18.496 -20.271	-16.027% -17.565%
snot_noise speckle_noise	4	60.4	-6.87 -5.04	-10.498% -7.702%	49.738	-2.312 -2.201	-4.443% -4.229%	49.677	-1.643 -1.528	-3.201% -2.978%	102.055	-20.271 -13.352	-17.565% -11.569%
zoom_blur	4	50.6	-14.84	-22.677%	44.975	-7.075	-13.592%	50.538	-0.782	-1.523%	47.061	-68.346	-59.222%
defocus_blur	4	60.02	-5.42	-8.282%	50.246	-1.804	-3.465%	49.534	-1.786	-3.481%	95.916	-19.491	-16.889%
motion_blur	4	58.55	-6.89	-10.529%	49.602	-2.448	-4.702%	49.734	-1.586	-3.090%	89.346	-26.061	-22.582%
glass_blur	4	56.15	-9.29 -4.74	-14.196% 7.242%	46.939	-5.111	-9.819% 3.175%	49.677	-1.643	-3.201%	80.448	-34.959	-30.292%
jpeg_compression	4	62.77	-4.74 -2.67	-7.243% -4.080%	50.398 51.105	-1.652 -0.945	-3.175% -1.815%	49.72 50.696	-1.6 -0.624	-3.117% -1.216%	98.408 107.297	-16.999 -8.11	-14.730% -7.027%
contrast	4	57.84	-7.6	-11.614%	49.221	-2.829	-5.435%	49.72	-1.6	-3.117%	92.806	-22.601	-19.584%
elastic_transform	4	60.89	-4.55	-6.953%	50.072	-1.978	-3.801%	50.323	-0.997	-1.943%	99.063	-16.344	-14.162%
pixelate	4	54.64	-10.8	-16.504%	46.971	-5.079	-9.758%	49.806	-1.514	-2.950%	73.645	-41.762	-36.187%
snow	4	52.46	-12.98	-19.835%	45.126	-6.924	-13.302%	49.132	-2.188	-4.264%	65.607	-49.8	-43.151%
frost	4	55.16	-10.28	-15.709% 8.267%	47.249	-4.801	-9.224% 3.114%	50.352	-0.968	-1.887%	79.326	-36.081	-31.264%
fog brightness	4	60.03 62.7	-5.41 -2.74	-8.267% -4.187%	50.429 51.312	-1.621 -0.738	-3.114% -1.418%	50.38 50.409	-0.94 -0.911	-1.831% -1.775%	101.394 109.221	-14.013 -6.186	-12.142% -5.360%
spatter	4	57.6	-2.74 -7.84	-4.187% -11.980%	48.251	-3.799	-1.418% -7.299%	50.409	-0.423	-0.824%	87.559	-0.186	-3.360% -24.130%
saturate	4	61.37	-4.07	-6.219%	49.698	-2.352	-4.519%	50.954	-0.366	-0.712%	107.309	-8.098	-7.016%
corruption	severity		VQ.	A		GQ.			NLV			Captio	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	5 5	55.13 55.16	-10.31 -10.28	-15.755% -15.709%	48.052	-3.998 -4.213	-7.681% -8.093%	49.849 49.892	-1.471 -1.428	-2.866% -2.782%	80.405 80.375	-35.002 -35.032	-30.329% -30.355%
gaussian_noise shot noise	5	55.16 55.92	-10.28 -9.52	-15.709% -14.548%	47.837 47.655	-4.213 -4.395	-8.093% -8.445%	49.892	-1.428 -1.772	-2.782% -3.453%	80.375 84.802	-35.032 -30.605	-30.355% -26.520%
speckle_noise	5	58.31	-9.32 -7.13	-10.895%	49.253	-4.393	-5.374%	49.348	-1.772	-3.433%	94.76	-20.647	-17.890%
zoom_blur	5	49.01	-16.43	-25.107%	43.886	-8.164	-15.685%	49.864	-1.456	-2.838%	37.083	-78.324	-67.868%
defocus_blur	5	57.89	-7.55	-11.537%	49.404	-2.646	-5.084%	49.821	-1.499	-2.922%	87.011	-28.396	-24.605%
motion_blur	5	56.37	-9.07	-13.860%	48.998	-3.052	-5.863%	50.251	-1.069	-2.083%	77.123	-38.284	-33.173%
glass_blur	5	53.04	-12.4	-18.949%	46.152	-5.898	-11.331%	49.333	-1.987	-3.873%	67.137	-48.27	-41.826%
gaussian_blur	5 5	56.91 60.77	-8.53 4.67	-13.035% -7.136%	48.41	-3.64	-6.993% -3.434%	49.031 50.567	-2.289	-4.460% -1.467%	83.624 100.765	-31.783 -14.642	-27.540%
jpeg_compression contrast	5	50.83	-4.67 -14.61	-7.136% -22.326%	50.262 45.23	-1.788 -6.82	-3.434% -13.103%	49.275	-0.753 -2.045	-1.46/% -3.985%	63.069	-14.642 -52.338	-12.687% -45.351%
elastic_transform	5	54.78	-14.61	-16.290%	46.065	-5.985	-13.103%	50.754	-0.566	-1.104%	71.88	-43.527	-37.716%
pixelate	5	52.18	-13.26	-20.263%	44.101	-7.949	-15.272%	49.49	-1.83	-3.565%	60.501	-54.906	-47.576%
snow	5	53.44	-12.0	-18.337%	45.595	-6.455	-12.401%	50.151	-1.169	-2.278%	72.661	-42.746	-37.039%
frost	5	53.4	-12.04	-18.399%	46.74	-5.31	-10.201%	49.835	-1.485	-2.894%	73.329	-42.078	-36.461%
fog	5	56.28	-9.16	-13.998%	47.686	-4.364	-8.383%	50.553	-0.767	-1.495%	87.289	-28.118	-24.364%
brightness spatter	5 5	61.39 54.47	-4.05 -10.97	-6.189% -16.763%	50.564 46.589	-1.486 -5.461	-2.854% -10.491%	50.84 50.954	-0.48 -0.366	-0.936% -0.712%	106.065 74.051	-9.342 -41.356	-8.095% -35.835%
spatter saturate	5	58.83	-6.61	-10.763% -10.101%	48.927	-3.123	-10.491% -6.001%	50.934	-0.409	-0.712%	99.355	-41.336	-33.835% -13.909%
								/		,0,0		- 5.052	

Table 16: Performance and decrease ratio of Multiple Prompts on CLIP-BART against image corruptions given severity 1 to 5.

corruption	severity		VQ	A	Aon	GQ/ Decrease		Aon	NLV		CID	Captio	
impulse_noise	1	Acc 46.27	Decrease -0.54	Decrease Ratio	Acc 33.519	Decrease -0.491	Decrease Ratio	Acc 49.892	Decrease 0.022	Decrease Ratio 0.045%	CIDer 102.255	Decrease -6.364	Decrease Ratio
gaussian_noise	1	46.4	-0.41	-0.876%	33.567	-0.443	-1.304%	49.763	-0.107	-0.214%	105.318	-3.301	-3.039%
shot_noise	1 1	46.33 46.34	-0.48 -0.47	-1.025% -1.004%	33.455 33.63	-0.555 -0.38	-1.631% -1.117%	49.706 49.347	-0.164 -0.523	-0.329% -1.049%	105.515 105.513	-3.104 -3.106	-2.857% -2.859%
speckle_noise zoom_blur	1	44.04	-0.47	-1.004% -5.918%	32.104	-0.38	-1.11/% -5.605%	50.122	0.252	0.505%	81.915	-26.704	-2.839% -24.585%
defocus_blur	1	46.61	-0.2	-0.427%	34.147	0.137	0.403%	49.749	-0.121	-0.243%	105.641	-2.978	-2.742%
motion_blur glass_blur	1 1	46.49 46.57	-0.32 -0.24	-0.684% -0.513%	33.861 33.686	-0.149 -0.324	-0.439% -0.953%	50.079 49.419	0.209 -0.451	0.419% -0.905%	104.123 105.202	-4.496 -3.417	-4.139% -3.146%
gaussian_blur	1	46.71	-0.1	-0.214%	34.282	0.272	0.800%	49.577	-0.431	-0.588%	107.209	-1.41	-1.298%
jpeg_compression	1	46.53	-0.28	-0.598%	33.574	-0.436	-1.281%	50.093	0.223	0.448%	106.695	-1.924	-1.771%
contrast elastic_transform	1	45.93 46.49	-0.88 -0.32	-1.880% -0.684%	34.075 33.829	0.065 -0.181	0.192% -0.532%	49.72 49.849	-0.15 -0.021	-0.301% -0.042%	104.794 105.12	-3.825 -3.499	-3.521% -3.222%
pixelate	1	45.05	-1.76	-3.760%	33.352	-0.658	-1.935%	49.605	-0.265	-0.531%	95.593	-13.026	-11.992%
snow	1	44.31 45.09	-2.5	-5.341%	32.024	-1.986 -0.944	-5.839% -2.777%	49.002	-0.868	-1.740%	92.626	-15.993	-14.724%
frost fog	1	45.58	-1.72 -1.23	-3.674% -2.628%	33.066 33.654	-0.356	-2.777% -1.047%	49.519 49.72	-0.351 -0.15	-0.704% -0.301%	97.127 105.238	-11.492 -3.381	-10.580% -3.113%
brightness	1	46.71	-0.1	-0.214%	33.916	-0.094	-0.275%	49.778	-0.092	-0.185%	107.028	-1.591	-1.465%
spatter saturate	1 1	46.48 45.19	-0.33 -1.62	-0.705% -3.461%	33.948 33.885	-0.062 -0.125	-0.182% -0.369%	49.691 49.835	-0.179 -0.035	-0.358% -0.070%	106.63 104.711	-1.989 -3.908	-1.831% -3.598%
corruption	severity		VQ	A		GQA	A		NLV	R		Captio	n
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	2 2	45.95 46.04	-0.86 -0.77	-1.837% -1.645%	33.384 33.272	-0.626 -0.738	-1.842% -2.169%	50.136 49.519	0.266 -0.351	0.534% -0.704%	98.724 103.07	-9.895 -5.549	-9.110% -5.109%
shot_noise	2	46.07	-0.74	-1.581%	33.797	-0.213	-0.626%	49.447	-0.423	-0.847%	101.997	-6.622	-6.097%
speckle_noise	2	46.05	-0.76	-1.624%	33.447	-0.563	-1.655%	50.222	0.352	0.707%	103.729	-4.89	-4.502%
zoom_blur defocus_blur	2 2	42.48 46.14	-4.33 -0.67	-9.250% -1.431%	31.428 33.702	-2.582 -0.308	-7.592% -0.906%	50.151 49.677	0.281 -0.193	0.563% -0.387%	69.602 102.379	-39.017 -6.24	-35.921% -5.745%
motion_blur	2	45.88	-0.93	-1.987%	33.646	-0.364	-1.070%	49.577	-0.293	-0.588%	101.882	-6.737	-6.202%
glass_blur gaussian blur	2	45.97 46.4	-0.84 -0.41	-1.794% -0.876%	33.415 33.853	-0.595 -0.157	-1.748% -0.462%	49.548 49.734	-0.322 -0.136	-0.646% -0.272%	100.838 104.219	-7.781 -4.4	-7.163% -4.051%
jpeg_compression	2 2	46.4	-0.41 -0.49	-0.876% -1.047%	33.638	-0.157 -0.372	-0.462% -1.094%	49.734	-0.136	-0.272% -0.444%	104.219	-4.4 -3.578	-4.051% -3.294%
contrast	2	45.57	-1.24	-2.649%	33.678	-0.332	-0.977%	49.49	-0.38	-0.761%	103.092	-5.527	-5.088%
elastic_transform pixelate	2 2	45.44 44.8	-1.37 -2.01	-2.927% -4.294%	33.074 33.097	-0.936 -0.913	-2.753% -2.683%	49.376 49.821	-0.494 -0.049	-0.991% -0.099%	91.795 92.838	-16.824 -15.781	-15.489% -14.529%
snow	2	42.63	-4.18	-8.930%	31.356	-2.654	-7.803%	49.476	-0.394	-0.790%	81.032	-27.587	-25.398%
frost	2	43.16	-3.65	-7.797%	31.857	-2.153	-6.330%	49.462	-0.408	-0.819%	85.069	-23.55	-21.681%
fog brightness	2 2	45.47 46.37	-1.34 -0.44	-2.863% -0.940%	33.614 33.662	-0.396 -0.348	-1.164% -1.023%	49.993 49.806	0.123 -0.064	0.246% -0.128%	103.199 107.112	-5.42 -1.507	-4.990% -1.388%
spatter	2	44.82	-1.99	-4.251%	32.779	-1.231	-3.618%	49.993	0.123	0.246%	96.582	-12.037	-11.081%
saturate	2	44.08	-2.73 VQ	-5.832%	33.614	-0.396 GQA	-1.164%	49.333	-0.537 NLV	-1.078%	99.905	-8.714 Captio	-8.022%
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	3	45.26	-1.55	-3.311%	33.336	-0.674	-1.982%	49.476	-0.394	-0.790%	96.802	-11.817	-10.880%
gaussian_noise	3	45.52	-1.29	-2.756% -2.927%	33.177	-0.833	-2.449% -2.099%	49.318	-0.552	-1.106%	97.223	-11.396	-10.492%
shot_noise speckle_noise	3	45.44 45.44	-1.37 -1.37	-2.927% -2.927%	33.296 33.312	-0.714 -0.698	-2.052% -2.052%	49.462 49.562	-0.408 -0.308	-0.819% -0.617%	97.707 97.664	-10.912 -10.955	-10.046% -10.085%
zoom_blur	3	40.93	-5.88	-12.561%	30.418	-3.592	-10.561%	50.395	0.525	1.052%	58.459	-50.16	-46.180%
defocus_blur motion_blur	3	45.46 45.4	-1.35 -1.41	-2.884% -3.012%	33.145 33.384	-0.865 -0.626	-2.543% -1.842%	49.691 50.065	-0.179 0.195	-0.358% 0.390%	96.366 95.118	-12.253 -13.501	-11.280% -12.430%
glass_blur	3	43.62	-3.19	-6.815%	31.277	-2.733	-8.036%	49.49	-0.38	-0.761%	80.695	-27.924	-25.708%
gaussian_blur	3	45.47	-1.34	-2.863%	33.137	-0.873	-2.566%	49.677	-0.193	-0.387%	98.701	-9.918	-9.131%
jpeg_compression contrast	3	46.16 44.92	-0.65 -1.89	-1.389% -4.038%	33.916 33.296	-0.094 -0.714	-0.275% -2.099%	50.022 49.246	0.152 -0.624	0.304% -1.250%	104.927 99.132	-3.692 -9.487	-3.399% -8.735%
elastic_transform	3	46.1	-0.71	-1.517%	33.058	-0.952	-2.800%	49.749	-0.121	-0.243%	101.1	-7.519	-6.923%
pixelate snow	3	43.82 41.46	-2.99 -5.35	-6.388% -11.429%	32.183 31.038	-1.827 -2.972	-5.371% -8.738%	50.122 49.404	0.252 -0.466	0.505% -0.934%	83.466 73.038	-25.153 -35.581	-23.157% -32.758%
frost	3	41.92	-4.89	-10.446%	30.967	-3.043	-8.948%	49.002	-0.466	-1.740%	76.414	-32.205	-29.650%
fog	3	44.98	-1.83	-3.909%	33.67	-0.34	-1.000%	49.605	-0.265	-0.531%	99.254	-9.365	-8.622%
brightness spatter	3	46.04 44.12	-0.77 -2.69	-1.645% -5.747%	33.439 32.128	-0.571 -1.882	-1.678% -5.535%	49.763 49.993	-0.107 0.123	-0.214% 0.246%	104.445 90.0	-4.174 -18.619	-3.843% -17.141%
saturate	3	46.7	-0.11	-0.235%	33.574	-0.436	-1.281%	49.62	-0.25	-0.502%	106.655	-1.964	-1.808%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	4	44.38	-2.43	-5.191%	32.43	-1.58	-4.647%	49.591	-0.279	-0.560%	88.377	-20.242	-18.635%
gaussian_noise	4	44.46	-2.35	-5.020%	32.636	-1.374	-4.039%	49.548	-0.322	-0.646%	88.193	-20.426	-18.806%
shot_noise speckle_noise	4	44.43 44.84	-2.38 -1.97	-5.084% -4.209%	32.923 33.097	-1.087 -0.913	-3.197% -2.683%	49.605 49.361	-0.265 -0.509	-0.531% -1.020%	87.759 93.592	-20.86 -15.027	-19.205% -13.835%
zoom_blur	4	40.16	-6.65	-14.206%	29.456	-4.554	-13.390%	50.237	0.367	0.736%	50.053	-58.566	-53.919%
defocus_blur	4	44.81	-2.0	-4.273%	32.748	-1.262	-3.712%	49.189	-0.681	-1.365%	89.136	-19.483	-17.937%
motion_blur glass_blur	4	44.24 42.91	-2.57 -3.9	-5.490% -8.332%	32.191 31.134	-1.819 -2.876	-5.348% -8.457%	49.706 49.534	-0.164 -0.336	-0.329% -0.675%	83.128 72.382	-25.491 -36.237	-23.469% -33.362%
gaussian_blur	4	44.77	-2.04	-4.358%	32.605	-1.405	-4.132%	49.117	-0.753	-1.509%	91.353	-17.266	-15.896%
jpeg_compression contrast	4	45.62 42.91	-1.19 -3.9	-2.542% -8.332%	33.726 32.287	-0.284 -1.723	-0.836% -5.068%	49.447 49.002	-0.423 -0.868	-0.847% -1.740%	99.898 85.581	-8.721 -23.038	-8.029% -21.210%
elastic_transform	4	45.26	-3.9 -1.55	-3.311%	32.438	-1.572	-4.623%	49.935	0.065	0.131%	93.178	-15.441	-14.216%
pixelate	4	42.26	-4.55	-9.720%	30.967	-3.043	-8.948%	49.648	-0.222	-0.444%	66.914	-41.705	-38.396%
snow frost	4	39.9 41.63	-6.91 -5.18	-14.762% -11.066%	29.862 31.094	-4.148 -2.916	-12.197% -8.574%	49.06 49.376	-0.81 -0.494	-1.625% -0.991%	58.747 72.558	-49.872 -36.061	-45.915% -33.200%
fog	4	44.03	-2.78	-5.939%	32.652	-1.358	-3.992%	49.663	-0.207	-0.416%	94.25	-14.369	-13.229%
brightness	4	45.6	-1.21	-2.585% -6.836%	33.392	-0.618	-1.818%	49.361	-0.509	-1.020%	103.259	-5.36	-4.935%
spatter saturate	4	43.61 45.23	-3.2 -1.58	-3.375%	31.794 32.891	-2.216 -1.119	-6.517% -3.291%	49.175 49.993	-0.695 0.123	-1.394% 0.246%	81.102 100.906	-27.517 -7.713	-25.333% -7.101%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ. Decrease	A Decrease Ratio	Acc	NLV Decrease	/R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	5	42.83	-3.98	-8.502%	31.11	-2.9	-8.527%	49.333	-0.537	-1.078%	75.508	-33.111	-30.483%
gaussian_noise	5	42.85	-3.96	-8.460%	31.42	-2.59	-7.616%	49.132	-0.738	-1.481%	74.45	-34.169	-31.458%
shot_noise speckle_noise	5 5	42.99 44.01	-3.82 -2.8	-8.161% -5.982%	31.937 32.708	-2.073 -1.302	-6.096% -3.829%	49.189 49.433	-0.681 -0.437	-1.365% -0.876%	78.38 87.429	-30.239 -21.19	-27.840% -19.509%
zoom_blur	5	39.08	-7.73	-16.514%	28.82	-5.19	-15.260%	49.95	0.08	0.160%	41.641	-66.978	-61.663%
defocus_blur	5	43.77	-3.04	-6.494% 7.071%	31.873	-2.137	-6.283% 6.704%	49.074	-0.796	-1.596%	81.407	-27.212	-25.053%
motion_blur glass_blur	5 5	43.5 41.71	-3.31 -5.1	-7.071% -10.895%	31.73 30.108	-2.28 -3.902	-6.704% -11.473%	49.663 49.16	-0.207 -0.71	-0.416% -1.423%	72.983 59.526	-35.636 -49.093	-32.808% -45.198%
gaussian_blur	5	43.11	-3.7	-7.904%	31.356	-2.654	-7.803%	49.189	-0.681	-1.365%	77.612	-31.007	-28.547%
jpeg_compression	5	44.97	-1.84	-3.931%	33.415	-0.595	-1.748%	50.036	0.166	0.333%	92.618	-16.001	-14.732%
contrast elastic_transform	5 5	39.39 42.71	-7.42 -4.1	-15.851% -8.759%	30.347 30.259	-3.663 -3.751	-10.771% -11.029%	48.974 49.691	-0.896 -0.179	-1.797% -0.358%	58.532 65.953	-50.087 -42.666	-46.113% -39.280%
pixelate	5	41.29	-5.52	-11.792%	29.401	-4.609	-13.553%	49.993	0.123	0.246%	53.735	-54.884	-50.529%
snow	5	40.65	-6.16	-13.160%	30.681	-3.329	-9.790%	49.132	-0.738	-1.481%	65.299	-43.32	-39.882%
frost fog	5 5	41.13 42.16	-5.68 -4.65	-12.134% -9.934%	31.523 31.897	-2.487 -2.113	-7.312% -6.213%	49.06 49.677	-0.81 -0.193	-1.625% -0.387%	68.627 80.86	-39.992 -27.759	-36.819% -25.557%
brightness	5	45.07	-1.74	-3.717%	33.082	-0.928	-2.730%	49.376	-0.494	-0.991%	100.67	-7.949	-7.318%
spatter	5 5	42.18	-4.63 2.73	-9.891% 5.832%	30.259 32.175	-3.751	-11.029% 5.305%	49.562	-0.308 -0.207	-0.617%	67.949 93.914	-40.67 -14.705	-37.442%
saturate	3	44.08	-2.73	-5.832%	34.173	-1.835	-5.395%	49.663	-0.207	-0.416%	95.914	-14./05	-13.538%

Table 17: Performance and decrease ratio of Single Adapter on CLIP-BART against image corruptions given severity 1 to 5.

Company Comp	tions given	1 SCVC	IIIy .	1 10 5.										
Implications	corruption	severity	A 00			4.00			A			CIDon	Captio	
printent part of the set of the	toronter actes													
Section 1 0.99 0.36 0.351														
pecked part 0.457 0.458 0.458 0.4598														
Section 1		1									-0.367%	112.232	-2.806	
Section Color														-23.635%
Part														
		-												
		-												
classic_press 1		1	65.26											
Principle 1														
Part														
February Company Co		-												
In comparison 1		1												
Second 1	fog	1	64.01			49.936	-4.204		73.561		-0.445%	110.89	-4.148	-3.606%
		-												-1.476%
Completing Severity Acc Derivate Ratio Acc Derivate Derivate Ratio Acc De		-												
Propuls Prop														
Separation Sep	corruption	severity	Acc			Acc			Acc			CIDer		
painsing pains 2 64,02 -1.33 -2.05% -9.428 -4.712 -8.7046 73.301 -9.075% -0.705% 10.729 -5.299 -4.45% -4.708 -4.70	impulse noise	2	63.07	-2.28	-3.489%	48.617	-5.523	-10.202%	72.025	-1.865	-2.524%	105.627	-9.411	-8.181%
specific process 2		2												
Agricultural 2														
moning plane, blast 2														
glassia, blur 2 cl.557 1.68 1.25716 93.96 94.871 s. 99.98														
genesia, plane 2														
prignose prices 2		2			-1.178%									-4.072%
Compute Comp	jpeg_compression	2	65.29	-0.06	-0.092%	49.65	-4.49	-8.293%	73.217	-0.673	-0.911%	111.506	-3.532	-3.071%
Principle 2 6.177 5.58 5.478% 479.52 6.215 1.1489% 60.160 4.721 6.389% 100.404 145.64 -12.721% show 2 5.436 6.56 -10.427% 4.025 6.215 1.1489% 60.11 4.477 6.059% 6.215 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.077 2.215% 1.075% 1.078 2.215% 2.215% 2.215% 2.215% 2.215% 2.215% 2.215% 2.215% 2.	contrast	2	64.14	-1.21		49.261	-4.879	-9.013%	73.561	-0.329	-0.445%	109.626	-5.412	
France 2 93,40 6.86 101,497% 40.025 8.115 1-14,999% 69,413 4.477 -6.059% 88.321 26,717 -22,259% 101,101 23,000 23,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,116 7-6,000 24,117 23,127 2										-3.601				
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Security Court														
Impulse, noise 3	saturate	2	60.07	-5.28	-8.080%	48.243	-5.897	-10.892%	70.848	-3.042	-4.117%	105.558	-9.48	-8.241%
impulse_noise 3 62.07 3.28 5.61994 44.841 5.659 -10.6258 71.236 2.654 3.5928 10.2392 -12.166 -10.5245 shot_noise 3 62.18 -2.373 -1.83154 48.672 5.468 -10.09995 71.451 -2.439 -3.3015 10.4749 -10.239 8.9445 -1.852 -2.654 -2.654 -	corruption	severity	A 00			4.00			A			CIDon		
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Descriptions Samurate Samur														
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impulse_noise	corruption	severity	Acc			Acc			Acc			CIDer		
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Corruption Severity Acc Decrease Decrease Ratio Decrease Ratio Decrease Ratio Specific gaussian noise 5 55.61 9.74 -14.904% 4.244 4.294 9.856 -16.825% 64.274 -9.616 -13.013% 73.703 -41.335 -33.932% 3.934 -19.246% 4.254 -1.256% -1.256% 64.274 -9.616 -13.013% 73.703 -41.335 -33.932% -3.5932% -3	jpeg_compression		63.54	-1.81	-2.770%	49.118	-5.022	-9.277%	72.312	-1.578	-2.135%	107.37	-7.668	-6.666%
Principle							-8.211	-15.165%						
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corruption severity Acc VQA Decrease Decrease Pation GQA Decrease Decrease Ratio Acc Decrease Decrease Ratio Decrease Ratio Acc NLVR Decrease Decrease Ratio Decrease Ratio CliDer Decrease Decrease Ratio Decrease Ratio CliDer Decrease Decrease Ratio Decrease Ratio impulse_noise 5 5.56.1 -9.74 -14.904% 45.031 -9.109 -16.825% 66.0915 -6.975 -9.439% 79.906 -35.132 -30.539% shot_noise 5 55.51 -8.78 -13.435% 45.58 -8.56 -15.812% 66.743 -7.147 -9.672% 84.103 -30.3935 -26.891% speckle_noise 5 56.57 -8.78 -13.435% 45.58 -8.56 -15.812% 66.743 -7.147 -9.672% 84.103 -30.3935 -26.891% zoom_blur 5 48.37 -16.98 -25.983% 39.911 -14.229 -26.282% 56.222 -17.668 -23.911% 39.022 -76.016 -66.079% defocus_blur 5 58.58 -6.77	spatter		58.17	-7.18	-10.987%	45.492	-8.648	-15.973%	68.408	-5.482	-7.419%	87.985	-27.053	-23.517%
Impulso_noise	saturate	4	62.08			48.092			71.623			107.11	-7.928	-6.892%
impulse_noise 5 55.61 -9.74 -14.904% 45.031 -9.109 -16.825% 67.203 -6.687 -9.051% 80.804 -34.234 -29.759% gaussian_noise 5 55.61 -9.74 -14.904% 44.864 -9.276 -17.133% 66.915 -6.975 -9.439% 79.906 -35.132 -30.539% shot_noise 5 56.57 -8.78 13.435% 45.58 -8.56 -15.812% 66.743 -7.147 -9.672% 84.103 30.935 -26.891% speckle_noise 5 59.3 -6.05 -9.258% 47.702 -6.438 -11.891% 68.839 -5.051 -6.836% 94.777 -20.261 -17.612% defocus blur 5 58.58 -6.77 -10.360% 46.192 -7.948 -14.8618 67.647 -6.243 -8.448% 86.771 -22.267 -24.572% motion blur 5 56.49 -8.86 -13.558% 46.041 -8.099 -14.960% 66.686 <th< td=""><td>corruption</td><td>severity</td><td>Acc</td><td>VQ. Decrease</td><td>A Decrease Ratio</td><td>Acc</td><td></td><td></td><td>Acc</td><td></td><td></td><td>CIDer</td><td></td><td></td></th<>	corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc			Acc			CIDer		
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$ \begin{array}{llllllllllllllllllllllllllllllllllll$													-32.228	-28.015%
contrast 5 5091 -14.44 -22.096% 41.294 -12.846 -23.727% 63.112 -10.778 -14.587% 63.395 -51.643 -44.892% elastic_transform 5 55.7 -9.65 -14.767% 42.932 -11.208 -20.702% 68.179 -57.11 -7.730% 72.09 42.948 -37.334% pixelate 5 52.37 -12.98 -19.862% 41.517 -12.623 -23.316% 61.016 -12.874 -17.423% 62.76 25.276 -45.443% snow 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 64.849 -9.041 -12.236% 72.54 -42.498 -36.943% forst 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 66.384 -7.506 -11.058% 72.55 -42.498 -36.943% forg 5 57.01 -8.34 -12.762% 45.389 -8.751 -16.164% 69.901 -3.989	jpeg_compression	5			-5.738%	47.869	-6.271	-11.582%		-2.97		100.003		-13.070%
pixelate 5 52.37 -12.98 -19.862% 41.517 -12.623 -23.316% 61.016 -12.874 -17.423% 62.762 -52.276 -45.44% snow 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 64.849 -9.041 -12.236% 72.54 -42.498 -36.943% frost 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 66.384 -7.506 -10.158% 73.265 -41.773 -36.313% fog 5 57.01 -8.34 -12.762% 45.389 -8.751 -16.164% 69.901 -3.989 -5.399% 86.301 -28.737 -24.980% brightness 5 62.43 -2.92 -4.468% 48.744 -5.396 -9.967% 71.15 -2.74 -3.709% 105.832 -9.206 8.003% spatter 5 54.93 -10.42 -15.945% 43.481 -10.659 -19.688% 66.284 -7.606 -	contrast	5	50.91	-14.44	-22.096%	41.294	-12.846	-23.727%	63.112	-10.778	-14.587%	63.395	-51.643	-44.892%
snow 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 64.849 -9.041 -12.236% 72.54 -42.498 -36.943% frost 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 66.384 -7.506 -10.158% 73.265 -41.773 -36.343% fog 5 57.01 -8.34 -12.762% 45.389 -8.751 -16.164% 69.901 -3.989 -5.399% 86.301 -28.737 -24.980% brightness 5 62.43 -2.92 -4.468% 48.744 -5.396 -9.967% 71.15 -2.74 -3.709% 105.832 -9.206 8.003% spatter 5 54.93 -10.42 15.945% 43.481 -10.659 -19.688% 66.284 -7.066 -10.294% 74.194 -40.844 -35.05%		5											-42.948	
frost 5 54.19 -11.16 -17.077% 43.505 -10.635 -19.644% 66.384 -7.506 -10.158% 73.265 41.773 -36.313% fog 5 57.01 -8.34 -12.762% 45.389 -8.751 -16.164% 69.901 -3.989 -5.399% 86.301 -28.737 -24.980% brightness 5 62.43 -2.92 -4.468% 48.744 -5.396 -9.967% 71.15 -2.74 -3.709% 105.832 -9.206 -8.003% spatter 5 54.93 -10.42 -15.945% 43.481 -10.659 -19.688% 66.284 -7.606 -10.294% 74.194 -40.844 -35.05%		5						-23.316%	61.016	-12.874	-17.423%	62.762	-52.276	
fog 5 57.01 -8.34 -12.762% 45.389 -8.751 -16.164% 69.901 -3.989 -5.399% 86.301 -28.737 -24.980% brightness 5 62.43 -2.92 -4.468% 48.744 -5.396 -9.967% 71.15 -2.74 -3.709% 105.832 -9.206 -8.003% spatter 5 54.93 -10.42 -15.945% 43.481 -10.659 -19.688% 66.284 -7.606 -10.294% 74.194 40.844 -35.505%														
brightness 5 62.43 -2.92 -4.468% 48.744 -5.396 -9.967% 71.15 -2.74 -3.709% 105.832 -9.206 -8.003% spatter 5 54.93 -10.42 -15.945% 43.481 -10.659 -19.688% 66.284 -7.606 -10.294% 74.194 -40.844 -35.505%														
spatter 5 54.93 -10.42 -15.945% 43.481 -10.659 -19.688% 66.284 -7.606 -10.294% 74.194 -40.844 -35.505%		5												
saturate 5 59.71 -5.64 -8.630% 46.796 -7.344 -13.565% 68.179 -5.711 -7.730% 99.028 -16.01 -13.917%	spatter	5	54.93	-10.42	-15.945%	43.481	-10.659	-19.688%	66.284	-7.606	-10.294%	74.194	-40.844	-35.505%
						46.796			68.179	-5.711	-7.730%	99.028	-16.01	

Table 18: Performance and decrease ratio of Single Compacter on CLIP-BART against image corruptions given severity 1 to 5.

	s give												
corruption	severity		VQ			GQ/			NLV		CITP.	Caption	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	1	62.38 63.45	-2.09 -1.02	-3.242% -1.582%	48.012 48.847	-4.888 -4.053	-9.239% -7.661%	70.217 69.571	0.277 -0.369	0.396% -0.528%	108.307 111.056	-4.753 -2.004	-4.204% -1.772%
gaussian_noise shot_noise	1	63.46	-1.02	-1.567%	49.269	-3.631	-6.865%	70.016	0.076	0.108%	111.030	-1.978	-1.749%
speckle_noise	1	63.35	-1.12	-1.737%	48.736	-4.164	-7.872%	70.418	0.478	0.683%	111.427	-1.633	-1.444%
zoom_blur	1	57.83	-6.64	-10.299%	45.19	-7.71	-14.575%	56.696	-13.244	-18.936%	87.734	-25.326	-22.401%
defocus_blur	1 1	63.58 63.21	-0.89 -1.26	-1.380% -1.954%	48.513 48.712	-4.387 -4.188	-8.292% -7.917%	70.289 70.03	0.349	0.498% 0.129%	110.1 108.606	-2.96 -4.454	-2.618% -3.939%
motion_blur glass_blur	1	63.63	-0.84	-1.303%	48.609	-4.100	-8.112%	70.001	0.09	0.088%	110.944	-2.116	-1.871%
gaussian_blur	i	64.12	-0.35	-0.543%	49.475	-3.425	-6.474%	70.102	0.162	0.231%	112.676	-0.384	-0.340%
jpeg_compression	1	63.9	-0.57	-0.884%	48.609	-4.291	-8.112%	70.446	0.506	0.724%	111.881	-1.179	-1.043%
contrast	1	63.16 63.8	-1.31 -0.67	-2.032% -1.039%	48.784 48.982	-4.116 -3.918	-7.781%	70.016 69.829	0.076 -0.111	0.108% -0.158%	111.04 110.973	-2.02 -2.087	-1.787% -1.846%
elastic_transform pixelate	1 1	61.0	-3.47	-1.039% -5.382%	48.982	-5.918 -5.778	-7.406% -10.923%	69.829	-0.111	-0.138% -1.185%	101.596	-2.087 -11.464	-1.846% -10.139%
snow	i	59.57	-4.9	-7.600%	46.478	-6.422	-12.140%	68.652	-1.288	-1.841%	97.941	-15.119	-13.373%
frost	1	61.21	-3.26	-5.057%	47.599	-5.301	-10.021%	68.81	-1.13	-1.616%	102.993	-10.067	-8.904%
fog	1	62.5	-1.97	-3.056%	48.458	-4.442	-8.398%	69.657	-0.283	-0.405%	110.028	-3.032	-2.682%
brightness spatter	1 1	64.18 63.83	-0.29 -0.64	-0.450% -0.993%	49.269 48.935	-3.631 -3.965	-6.865% -7.496%	70.446 70.489	0.506 0.549	0.724% 0.786%	112.716 112.987	-0.344 -0.073	-0.304% -0.065%
saturate	i	61.63	-2.84	-4.405%	47.989	-4.911	-9.284%	69.126	-0.814	-1.164%	110.143	-2.917	-2.580%
			VQ	A .		CO			NLV			Caption	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	2	61.76	-2.71	-4.204%	47.869	-5.031	-9.510%	69.011	-0.929	-1.328%	104.634	-8.426	-7.453%
gaussian_noise	2	62.7	-1.77	-2.745%	48.41	-4.49	-8.488%	69.844	-0.929	-0.138%	108.907	-4.153	-3.674%
shot_noise	2	62.72	-1.75	-2.714%	48.338	-4.562	-8.623%	69.499	-0.441	-0.630%	108.111	-4.949	-4.377%
speckle_noise	2	63.13	-1.34	-2.078%	48.378	-4.522	-8.548%	69.585	-0.355	-0.507%	109.028	-4.032	-3.567%
zoom_blur	2 2	55.04 62.91	-9.43 -1.56	-14.627% -2.420%	43.33	-9.57	-18.091%	61.992	-7.948 -0.254	-11.364%	75.32	-37.74 -4.942	-33.381%
defocus_blur motion_blur	2	62.52	-1.95	-3.025%	48.577 48.092	-4.323 -4.808	-8.172% -9.089%	69.686 69.528	-0.234	-0.364% -0.589%	108.118 106.139	-6.921	-4.371% -6.121%
glass_blur	2	62.21	-2.26	-3.506%	48.187	-4.713	-8.909%	68.753	-1.187	-1.698%	105.509	-7.551	-6.679%
gaussian_blur	2 2	63.1	-1.37	-2.125%	48.648	-4.252	-8.037%	69.973	0.033	0.047%	108.869	-4.191	-3.707%
jpeg_compression	2	63.78	-0.69	-1.070%	48.513	-4.387	-8.292%	70.518	0.578	0.827%	111.731	-1.329	-1.175%
contrast elastic_transform	2 2	62.46 60.91	-2.01 -3.56	-3.118% -5.522%	48.243 47.44	-4.657 -5.46	-8.803% -10.321%	69.47 66.758	-0.47 -3.182	-0.671% -4.550%	108.788 97.209	-4.272 -15.851	-3.778% -14.020%
pixelate	2	60.54	-3.56	-5.322% -6.096%	46.923	-5.46 -5.977	-10.321%	66.887	-3.182	-4.366%	97.209	-13.646	-14.020%
snow	2	57.03	-7.44	-11.540%	44.387	-8.513	-16.093%	67.131	-2.809	-4.017%	87.136	-25.924	-22.929%
frost	2	57.88	-6.59	-10.222%	45.556	-7.344	-13.883%	67.475	-2.465	-3.524%	90.786	-22.274	-19.701%
fog	2	61.88	-2.59	-4.017%	48.084	-4.816	-9.104%	66.169	-3.771	-5.392%	109.011	-4.049	-3.582%
brightness spatter	2 2	63.68 60.59	-0.79 -3.88	-1.225% -6.018%	48.807 47.392	-4.093 -5.508	-7.736% -10.412%	70.059 69.312	0.119 -0.628	0.170% -0.897%	111.73 103.723	-1.33 -9.337	-1.177% -8.259%
saturate	2	58.7	-5.77	-8.950%	47.098	-5.802	-10.968%	67.289	-2.651	-3.791%	105.315	-7.745	-6.851%
			VQ	Δ		GQ.			NLV	2		Caption	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	3	60.71	-3.76	-5.832%	47.353	-5.547	-10.487%	68.48	-1.46	-2.088%	102,629	-10.431	-9.226%
gaussian noise	3	60.94	-3.53	-5.475%	47.694	-5.206	-9.840%	68.882	-1.058	-1.513%	103.945	-9.115	-8.062%
shot_noise	3	60.91	-3.56	-5.522%	47.957	-4.943	-9.345%	68.566	-1.374	-1.964%	104.135	-8.925	-7.894%
speckle_noise	3	61.16	-3.31	-5.134%	47.965	-4.935	-9.329%	68.394	-1.546	-2.211%	104.032	-9.028	-7.985%
zoom_blur defocus_blur	3	52.61 60.95	-11.86 -3.52	-18.396% -5.460%	42.05 47.122	-10.85 -5.778	-20.511% -10.923%	59.294 69.068	-10.646 -0.872	-15.222% -1.246%	61.902 102.474	-51.158 -10.586	-45.249% -9.363%
motion_blur	3	60.58	-3.32	-6.034%	47.122	-5.699	-10.772%	68.48	-0.872	-2.088%	99.581	-13.479	-11.922%
glass_blur	3	57.24	-7.23	-11.215%	44.236	-8.664	-16.378%	67.647	-2.293	-3.278%	86.811	-26.249	-23.217%
gaussian_blur	3	61.63	-2.84	-4.405%	47.822	-5.078	-9.600%	69.47	-0.47	-0.671%	105.023	-8.037	-7.108%
jpeg_compression	3	63.28 61.11	-1.19 -3.36	-1.846% -5.212%	48.601 47.209	-4.299 -5.691	-8.127% -10.757%	70.245 68.308	0.305 -1.632	0.437% -2.334%	110.761 104.222	-2.299 -8.838	-2.034% -7.817%
contrast elastic_transform	3	62.47	-2.0	-3.102%	47.806	-5.091	-9.630%	69.628	-0.312	-0.446%	104.222	-7.678	-6.791%
pixelate	3	57.98	-6.49	-10.067%	45.277	-7.623	-14.409%	65.853	-4.087	-5.843%	89.552	-23.508	-20.793%
snow	3	55.24	-9.23	-14.317%	43.568	-9.332	-17.641%	65.767	-4.173	-5.966%	79.518	-33.542	-29.668%
frost	3	55.67	-8.8	-13.650%	44.021	-8.879	-16.784% -9.916%	66.226	-3.714	-5.310%	82.75	-30.31	-26.809%
fog brightness	3	60.67 62.85	-3.8 -1.62	-5.894% -2.513%	47.655 48.148	-5.245 -4.752	-9.916% -8.984%	68.638 69.571	-1.302 -0.369	-1.862% -0.528%	105.889 110.337	-7.171 -2.723	-6.343% -2.409%
spatter	3	59.42	-5.05	-7.833%	46.788	-6.112	-11.554%	68.595	-1.345	-1.923%	95.991	-17.069	-15.097%
saturate	3	(251					-8.668%		0.636	0.909%		-1.531	-1.354%
		63.54	-0.93	-1.443%	48.315	-4.585		70.576	0.050		111.529		
		03.34			48.315			70.576			111.529	Caption	n
corruption	severity	63.54 Acc	-0.93 VQ Decrease		48.315 Acc	GQ/ Decrease		70.576 Acc	NLV Decrease		CIDer	Caption	n Decrease Ratio
		Acc	VQ Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer		Decrease Ratio
impulse_noise gaussian_noise	severity 4 4	Acc 58.47 58.56	VQ	A Decrease Ratio -9.307% -9.167%	Acc 46.398 46.836	GQA	Decrease Ratio -12.290% -11.464%	Acc 67.547 67.36	NLV Decrease -2.393 -2.58	R Decrease Ratio -3.421% -3.688%	CIDer 94.706 95.277	Decrease	-16.234% -15.729%
impulse_noise gaussian_noise shot_noise	4 4 4	Acc 58.47 58.56 58.29	VQ Decrease -6.0 -5.91 -6.18	A Decrease Ratio -9.307% -9.167% -9.586%	Acc 46.398 46.836 46.2	GQ/ Decrease -6.502 -6.064 -6.7	Decrease Ratio -12.290% -11.464% -12.666%	Acc 67.547 67.36 66.657	NLV Decrease -2.393 -2.58 -3.283	Decrease Ratio -3.421% -3.688% -4.694%	CIDer 94.706 95.277 93.333	-18.354 -17.783 -19.727	Decrease Ratio -16.234% -15.729% -17.448%
impulse_noise gaussian_noise shot_noise speckle_noise	4 4 4 4	Acc 58.47 58.56 58.29 59.92	VQ Decrease -6.0 -5.91 -6.18 -4.55	A Decrease Ratio -9.307% -9.167% -9.586% -7.058%	Acc 46.398 46.836 46.2 46.939	GQA Decrease -6.502 -6.064 -6.7 -5.961	Decrease Ratio -12.290% -11.464% -12.666% -11.268%	Acc 67.547 67.36 66.657 67.418	NLV Decrease -2.393 -2.58 -3.283 -2.522	Decrease Ratio -3.421% -3.688% -4.694% -3.606%	CIDer 94.706 95.277 93.333 99.83	-18.354 -17.783 -19.727 -13.23	Decrease Ratio -16.234% -15.729% -17.448% -11.702%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur	4 4 4	Acc 58.47 58.56 58.29 59.92 50.66	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81	A Decrease Ratio -9.307% -9.167% -9.586% -7.058% -21.421%	Acc 46.398 46.836 46.2 46.939 40.189	GQA Decrease -6.502 -6.064 -6.7 -5.961 -12.711	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028%	Acc 67.547 67.36 66.657 67.418 56.897	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043	Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649%	CIDer 94.706 95.277 93.333 99.83 52.847	-18.354 -17.783 -19.727 -13.23 -60.213	-16.234% -15.729% -17.448% -11.702% -53.258%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur	4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4	A Decrease Ratio -9.307% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur	4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96	A Decrease Ratio -9.307% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.632%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur gaussian_blur	4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49	A Decrease Ratio -9.307% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526	GQA Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.632% -12.050%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur gaussian_blur jpeg_compression	4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04	A Decrease Ratio -9.307% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607	GQA Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.632% -12.050% -10.006%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375% -0.364%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075% -5.054%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur gaussian_blur	4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -10.935% -6.096%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 45.134 46.605	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295	Decrease Ratio -12.290% -11.464% -11.464% -12.666% -11.268% -24.028% -13.312% -18.632% -10.006% -10.006% -14.680% -14.899%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279 69.686 65.25 69.169	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -0.364% -1.102%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 99.043	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075% -5.054% -19.290% -12.398%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur glass_blur jpeg_compression contrast elastic_transform pixelate	4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39	A Decrease Ratio 9.307% 9.167% 9.167% 9.586% -7.058% -7.058% -7.756% 9.927% -13.898% -6.964% -3.164% -10.935% -6.096% -16.116%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777	Decrease Ratio -12.290% -11.464% -12.666% -11.2686% -24.028% -12.335% -13.312% -18.632% -12.050% -14.680% -11.899% -18.482%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 69.169 61.605	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375% -0.364% -6.705% -1.102% -11.918%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 99.043 73.492	-18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568	Decrease Ratio -16.234% -15.729% -15.729% -11.702% -53.258% -16.4044% -22.185% -29.619% -29.619% -13.075% -5.054% -19.290% -12.398% -34.997%
impulse noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow	4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -3.164% -10.935% -6.006% -16.116% -19.482%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.602 43.123 41.437	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463	Decrease Ratio -12,290% -11,464% -12,666% -12,666% -11,268% -24,028% -12,335% -13,312% -18,632% -10,006% -10,006% -14,680% -14,680% -14,680% -18,482% -21,666%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.169	NLV: Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -0.364% -1.102% -1.102% -1.102%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 107.345 91.25 99.043 73.492 64.718	-18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342	Decrease Ratio -16.234% -15.729% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075% -5.054% -19.290% -12.398% -34.997% -42.758%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur gaussian_blur jpeg_compression contrast elastie_transform pixelate snow frost	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -9.927% -13.898% -6.964% -3.164% -10.935% -6.096% -19.482% -16.116% -19.482% -15.697%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.506 47.607 45.134 46.605 43.123 41.437 43.187	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463	Decrease Ratio -12.290% -11.464% -11.666% -11.268% -24.028% -24.028% -12.335% -13.312% -18.632% -10.066% -14.680% -11.899% -18.482% -21.668% -21.668% -21.668% -18.362%	Acc 67.547 67.36 66.657 67.418 56.891 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.169 66.313	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771 -3.627	R Decrease Ratio -3.421% -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375% -0.364% -6.705% -1.11918% -9.681% -9.681% -5.186%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 91.25 99.043 73.492 64.718 78.315	-18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075% -19.290% -19.290% -12.398% -34.997% -42.758% -30.732%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -6.096% -16.116% -19.482% -15.697% -8.283%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.717 -9.717	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.025% -12.3355% -13.312% -18.652% -10.006% -11.899% -11.899% -18.482% -21.668% -18.362% -18.562%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.169 66.313 67.963	NLV Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.049 -1.661 -0.254 -4.69 -0.771 -3.627 -6.771 -3.627 -1.977	R Decrease Ratio -3.421 % -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -0.364% -1.102% -1.102% -1.188% -9.681% -5.186% -5.286%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 99.043 73.492 64.718 78.315 100.583	-18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477	Decrease Ratio -16.234% -15.729% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.059% -13.075% -5.054% -19.290% -12.398% -34.997% -42.758% -30.732% -30.732% -11.036%
impulse noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gauss_ian_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02 56.94	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -9.586% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -19.482% -6.996% -16.116% -19.482% -15.697% -8.283% -3.800% -11.6809%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327 47.678	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.713 -6.573 -5.222 -9.8155	Decrease Ratio -12.290% -11.464% -11.464% -12.666% -11.2635% -24.028% -12.335% -13.312% -18.652% -10.006% -11.899% -11.899% -18.4680% -18.432% -21.668% -18.432% -21.668% -18.432% -21.668% -18.432% -21.668% -18.432% -14.668%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.13 67.963 66.313 67.963 66.344	NLV. Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771 -1.216 -3.599	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -6.705% -1.102% -11.918% -9.681% -5.186% -2.826% -1.739% -5.145%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.243 73.492 64.718 78.315 100.583 107.612 86.484	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -48.342 -12.477 -12.477 -12.477	Decrease Ratio -16.234% -15.729% -17.748% -11.702% -53.258% -16.404% -22.185% -29.619% -29.059 -13.075% -5.054% -19.290% -12.398% -30.732% -11.036% -4.819% -23.506%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur gaussian_blur jpeg_compression contrast elasti_transform pixelate snow frost fog brightness	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -9.927% -13.898% -6.964% -10.935% -6.096% -10.116% -19.482% -15.697% -8.283% -8.283% -3.300%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 47.45,134 41.437 43.187 43.187 46.327 47.678	GQ2 Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.713 -6.573 -5.212	Decrease Ratio -12.290% -11.464% -11.666% -11.268% -24.028% -24.028% -13.312% -18.632% -12.050% -10.006% -14.680% -11.899% -18.482% -21.668% -24.425% -24.25%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279 69.686 65.25 63.169 66.313 67.963 68.724	NLV. Decrease -2.393 -2.58 -3.283 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771 -3.627 -1.977 -1.216	R Decrease Ratio -3.421% -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375% -0.364% -6.705% -1.102% -1.11918% -9.681% -9.681% -5.186% -2.826% -1.739%	CIDer 94.706 95.277 93.333 99.83 52.847 94.518 879.572 98.277 107.345 91.25 99.043 73.492 64.718 78.315 100.583	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.785 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477 -5.448	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.619% -19.290% -13.075% -5.054% -19.290% -42.758% -34.997% -42.758% -30.732% -11.036% -4.819%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02 56.94	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45 -7.53 -7.53 -3.78	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -9.586% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -19.482% -6.966% -11.16% -19.482% -15.697% -8.283% -3.800% -11.680% -5.863%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327 47.678	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -6.251 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.713 -6.573 -5.292 -8.155 -6.032	Decrease Ratio -12.290% -11.464% -11.464% -12.666% -11.2635% -24.028% -12.335% -13.312% -18.652% -10.006% -11.899% -11.899% -18.482% -21.668% -18.482% -21.4668% -18.432% -11.404%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.13 67.963 66.313 67.963 66.344	NLV. Decrease -2.393 -2.598 -3.283 -2.522 -13.043 -2.049 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771 -1.216 -3.627 -1.977 -1.216	R Decrease Ratio -3.421 -3.421 -3.68% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -6.705% -1.102% -1.102% -1.198% -9.681% -5.186% -5.286% -1.739% -5.145% -1.759%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.243 73.492 64.718 78.315 100.583 107.612 86.484	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.562 -48.342 -34.745 -12.477 -5.448 -26.576 -7.19	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.059 -13.075% -5.054% -19.290% -12.398% -34.997% -42.758% -30.732% -4.819% -23.506% -6.360%
impulse noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gauss_ian_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02 56.94	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -9.586% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -19.482% -6.966% -11.16% -19.482% -15.697% -8.283% -3.800% -11.680% -5.863%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327 47.678	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.713 -6.573 -5.222 -9.8155	Decrease Ratio -12.290% -11.464% -11.464% -12.666% -11.2635% -24.028% -12.335% -13.312% -18.652% -10.006% -11.899% -11.899% -18.482% -21.668% -18.482% -21.4668% -18.432% -11.404%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.13 67.963 66.313 67.963 66.344	NLV. Decrease -2.393 -2.58 -3.283 -2.522 -13.043 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -8.335 -6.771 -1.216 -3.599	R Decrease Ratio -3.421 -3.421 -3.68% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -6.705% -1.102% -1.102% -1.198% -9.681% -5.186% -5.286% -1.739% -5.145% -1.759%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.243 73.492 64.718 78.315 100.583 107.612 86.484	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -48.342 -12.477 -12.477 -12.477	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.059 -13.075% -5.054% -19.290% -12.398% -34.997% -42.758% -30.732% -4.819% -23.506% -6.360%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate corruption	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 55.51 59.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02 56.94 60.69	VQ Decrease -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45 -7.53 -7.53 -7.53 -7.53 -7.53 -7.59	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -9.586% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -3.164% -10.935% -6.096% -16.116% -19.482% -15.697% -8.283% -3.800% -11.680% -5.863% A Decrease Ratio -15.030%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327 47.678 44.745 46.868	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.773 -6.573 -6.573 -6.573 -6.573 -6.525 -6.295 -9.773 -6.374 -6.373 -6.	Decrease Ratio -12.290% -11.464% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.652% -13.006% -11.899% -14.680% -11.899% -18.432% -21.668% -18.432% -18.416% -11.404%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.169 66.313 67.963 68.724 66.341 68.71	NLV. Decrease -2.393 -2.58 -3.283 -2.592 -13.043 -2.049 -3.699 -1.661 -0.254 -4.69 -0.771 -3.627 -1.976 -1.216 -3.599 -1.23 NLV. Decrease -4.69	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -0.364% -6.705% -1.102% -1.1198% -9.681% -5.145% -1.759% R Decrease Ratio -6.705%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 99.043 73.492 64.718 78.315 100.583 107.612 66.8484 105.87 CIDer 81.779	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477 -5.448 -26.576 -7.19 Caption Decrease -31.281	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.619% -50.54% -13.075% -5.054% -19.290% -12.398% -34.997% -42.758% -30.732% -31.036% -4.819% -23.506% -6.360% -10.036% -6.360% -10.036% -6.360% -10.036% -6.360% -10.036% -6.360% -10.036% -6.360%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur galass_blur galass_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate corruption impulse_noise gaussian_noise	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 59.47 58.07 55.51 59.98 62.43 57.42 60.54 54.08 51.91 54.35 59.13 62.02 56.94 60.69	VQ Decrease -6.0 -6.0 -5.91 -6.18 -4.55 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.52 -10.12 -5.34 -2.45 -7.53 -3.78 VQ Decrease -9.69 -9.78	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -10.935% -6.096% -10.9482% -16.116% -15.697% -8.283% -8.283% -11.680% -11.680% -11.680% -1.5.63% -1.5.63% -1.5.030% -1.5.030% -1.5.030% -1.5.030% -1.5.030%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.858 43.043 46.526 47.607 45.134 46.605 43.123 41.437 43.187 46.327 47.678 44.745 46.868	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.773 -6.573 -9.713 -6.573 -9.713 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573 -6.573	Decrease Ratio -12.290% -11.464% -11.666% -11.268% -24.028% -12.335% -13.312% -18.632% -12.050% -10.006% -14.899% -11.899% -18.482% -21.668% -24.425% -21.668% -18.4104% -18.4104% -18.4104% -18.4104% -18.4104% -18.4104%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.169 66.341 68.71 Acc 65.25 65.279	NLV. Decrease -2.393 -2.582 -2.522 -2.522 -13.043 -2.91 -3.699 -1.661 -0.254 -4.69 -0.771 -3.629 -1.21 -1.2176 -1.2176 -1.2176 -1.2176 -4.661 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694 -4.694	R Decrease Ratio -3.421% -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -2.375% -0.364% -6.705% -1.102% -1.1198% -9.681% -2.826% -1.739% -5.186% -2.826% -1.759% R Decrease Ratio -6.705% -6.664%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 98.277 107.345 91.25 99.043 73.492 64.718 78.315 100.583 107.612 86.484 105.87 CIDer 81.779 80.075	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477 -5.448 -26.576 -7.19 Caption Decrease -31.281 -32.985	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -13.075% -5.054% -12.290% -12.398% -34.997% -42.758% -30.732% -11.036% -6.360% -6.360%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur glass_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate corruption impulse_noise gaussian_noise shot_noise	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 59.92 50.66 60.54 54.08 51.91 60.54 54.08 51.91 62.02 54.78 62.02 54.78 55.68	VQ Decrease -6.0 -5.91 -6.18 -4.15 -13.81 -5.0 -6.4 -8.96 -4.49 -2.04 -7.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45 -3.78 -2.45 -3.78 -2.45 -3.78 -2.69 -9.78 -9.78 -9.78	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -9.586% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -19.335% -6.096% -19.482% -15.697% -8.283% -3.800% -15.680% -5.863% A Decrease Ratio -15.030% -15.170% -13.634%	Acc 46.398 46.836 46.2 46.939 40.189 46.375 45.134 46.505 43.123 41.437 46.327 45.134 46.605 43.41 43.47 46.868 Acc 44.371 44.403 44.864	GQ/ Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -6.374 -5.293 -7.766 -6.295 -9.377 -11.463 -9.777 -11.463 -5.212 -8.355 -6.032 -6	Decrease Ratio -12.299% -11.464% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.652% -18.4652% -14.680% -11.899% -18.482% -21.668% -18.482% -21.466% -18.482% -18.46% -11.404%	Acc 67.547 67.36 66.657 67.316 66.657 67.018 67.03 66.241 68.279 69.686 65.25 69.169 61.605 63.136 66.313 67.963 68.724 66.341 68.71 Acc 65.25 65.279 64.748	NLV: Decrease -2.393 -2.582 -3.283 -2.522 -13.043 -2.049 -1.661 -0.254 -4.69 -1.23 -1.216 -3.699 -1.23 -1.23 -1.216 -3.627 -1.23 -1.	R Decrease Ratio -3.421 % -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -5.289% -5.289% -6.705% -1.102% -11.918% -9.681% -5.186% -2.826% -1.739% -1.759% -8. R Decrease Ratio -6.705% -6.664% -6.705% -6.6664% -7.423%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.572 107.345 91.25 99.043 73.492 64.718 78.315 100.583 107.612 86.484 105.87 CIDer 81.779 80.075	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477 -5.448 -26.576 -7.19 Caption Decrease -31.281 -32.985 -29.966	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.185% -29.619% -29.619% -50.54% -13.075% -5.054% -19.290% -12.398% -42.758% -30.732% -42.758% -4.819% -23.506% -6.360% -10.206% -6.360% -10.206% -25.709%
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impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate corruption impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur gaussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 5 5	Acc 58.29 50.66 62.43 51.54 60.69 62.43 57.36 63.25 63	VQ Decrease -6.0 -5.91 -6.18 -4.18 -4.18 -4.18 -4.19 -6.4 -8.96 -4.49 -2.04 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45 -7.53 -3.78 VQ Decrease -9.69 -9.78 -8.79 -6.36 -16.14 -7.11 -8.73 -11.63 -8.0 -4.39 -14	A Decrease Ratio -9.307% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.964% -3.164% -3.164% -10.935% -6.096% -14.482% -16.116% -19.482% -15.697% -8.283% -11.680% -5.863% -A Decrease Ratio -15.030% -11.680% -15.170% -13.634% -9.865% -9.865% -13.541% -18.039% -11.028% -13.541% -18.039% -15.782% -12.409% -6.809% -12.230% -15.782% -17.248% -17.202% -17.248% -17.107% -5.4660%	Acc 46.398 46.836 46.2 46.939 40.189 40.189 46.375 45.858 43.043 44.6375 45.858 44.7607 46.326 44.3123 41.437 46.326 44.4313 44.864 46.088 44.471 47.678 44.474 47.066 42.248 42.712 47.259 42.7319 42.232 42.7819 42.247 47.329	GQ/Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.877 -11.463 -9.777 -11.463 -9.777 -8.155 -6.032 -8.529 -8.155 -6.032 -8.529 -8.497 -8.036 -6.812 -11.384 -10.652 -11.327 -8.556 -5.834 -10.652 -11.584 -10.652 -11.587 -11.327 -8.556 -5.834 -10.652 -12.599 -8.656 -5.834 -10.652 -12.599 -8.555 -11.327 -8.555 -11.327 -8.555 -11.884 -10.652 -12.599 -8.555 -11.884 -10.652 -12.599 -8.555 -11.884 -10.652 -12.599 -10.6688 -10.119 -8.378	Decrease Ratio -12.290% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.632% -10.050% -10.060% -11.899% -14.689% -14.689% -14.689% -14.69% -14.69% -18.482% -21.668% -12.425% -12.425% -13.416% -11.404% -15.416% -11.404% -15.416% -11.404% -16.03% -12.876% -12.876% -12.876% -12.876% -12.876% -12.876% -12.876% -12.876% -10.03% -10.03% -10.03% -10.05% -19.115%	Acc 67.547 67.36 66.657 67.418 56.897 67.03 66.241 68.279 69.686 65.25 63.169 65.25 63.169 65.25 65.25 65.279 64.748 66.341 68.71 Acc 65.25 65.25 65.26 65.279 64.748 66.341 65.136 66.266 66.266 66.267 66.464 68.273	NLV. Decrease -2.393 -2.583 -2.582 -2.522 -13.043 -2.91 -3.699 -2.91 -3.699 -2.91 -3.699 -1.661 -0.254 -4.69 -4.69 -4.69 -4.601 -3.492 -3.492 -3.413 -3.413	R Decrease Ratio -3.421 -3.4218 -3.688% -4.694% -3.606% -18.649% -2.929% -4.160% -2.929% -4.160% -5.289% -2.375% -0.364% -6.705% -1.102% -11.918% -9.681% -9.681% -1.739% -1.739% -1.739% -1.759% -1.759% -1.759% -1.759% -1.759% -1.759% -1.759% -1.759% -1.759% -1.750% -1.3416% -1.310% -3.483% -1.5310% -3.483% -7.567% -3.310% -3.483% -7.567%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.043 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 64.718 73.492 66.484 105.87	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.745 -12.477 -5.715 -21.81 -24.77 -6.719 -7.19	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -11.702% -53.258% -29.619% -22.185% -29.619% -13.075% -5.054% -19.290% -12.398% -48.19% -42.758% -30.732% -11.036% -6.360% -6.360% -6.360% -7.668% -23.506% -6.311.28% -40.475% -23.961% -23.961% -24.115% -25.709% -17.214% -36.392% -40.475% -33.128% -40.475% -34.164% -36.392% -46.470% -36.456% -34.529% -7.164% -36.387% -7.164% -7.164%
impulse_noise gaussian_noise shot_noise speckle_noise zoom_blur defocus_blur motion_blur galuss_blur galuss_blur galussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness spatter saturate corruption impulse_noise gaussian_noise shot_noise zoom_blur defocus_blur motion_blur galuss_blur galuss_blur galussian_blur jpeg_compression contrast elastic_transform pixelate snow frost fog brightness	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acc 58.47 58.56 58.29 50.66 68.27 55.51 59.92 50.66 68.27 55.51 59.47 58.07 55.51 59.47 58.07 55.51 59.13 62.02 54.78 54.68 58.11 48.53 56.94 60.69 54.78 55.74 60.54 54.78 55.74 60.55 55.74 56.75 56.75 56	VQ Decrease -6.0 -5.91 -6.18 -4.18 -4.18 -4.18 -1.3.81 -5.0 -6.4 -8.96 -4.49 -2.04 -2.04 -2.04 -2.05 -3.93 -10.39 -12.56 -10.12 -5.34 -2.45 -7.53 -3.78 VQ Decrease -9.69 -9.78 -9.78 -9.69 -9.78 -6.36 -16.14 -7.11 -8.73 -11.63 -8.09 -14.99 -14.98 -12.93 -11.109 -8.85 -12.93 -11.109 -8.85 -3.52	A Decrease Ratio -9.307% -9.167% -9.167% -9.167% -9.586% -7.058% -21.421% -7.756% -9.927% -13.898% -6.9927% -13.64% -3.164% -19.482% -15.697% -16.116% -19.482% -15.697% -15.263% A Decrease Ratio -15.030% -15.170% -9.865% -25.035% -11.028% -13.541% -9.865% -25.035% -11.028% -13.541% -13.64% -9.865% -25.035% -11.028% -13.541% -	Acc 46.398 46.836 46.22 45.111 44.815 44.848 40.301 44.2248 40.301 44.238 44.268 44.268 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.403 44.371 44.37	GQ/Decrease -6.502 -6.064 -6.7 -5.961 -12.711 -6.525 -7.042 -9.857 -6.374 -5.293 -7.766 -6.295 -9.777 -11.463 -9.777 -11.463 -9.713 -6.573 -6.573 -6.222 -8.155 -6.032 -8.156 -6.812 -13.498 -8.856 -6.812 -13.498 -8.856 -6.812 -13.498 -8.856 -10.11884 -11.884 -10.652 -12.599 -10.668 -10.169 -8.378	Decrease Ratio -12.299% -11.464% -12.666% -11.268% -24.028% -12.335% -13.312% -18.652% -13.312% -14.680% -11.899% -14.680% -14.425% -14.62% -14.425% -14.425% -14.425% -15.416% -11.104% -15.116% -15.119% -12.876% -25.516% -14.725% -16.228% -15.285% -13.33% -22.465% -24.413% -16.363% -11.39% -12.425% -15.416% -15.191% -12.876% -25.516% -14.725% -16.228% -25.516% -11.335% -20.135% -20.135% -20.135% -20.135% -20.165% -19.128% -15.837% -10.532%	Acc 67.547 67.36 66.657 67.418 56.897 67.891 66.219 69.686 68.229 69.169 66.313 68.734 66.241 65.25 65.279 66.341 68.71 Acc 65.25 65.279 65.28 65.293 66.546 66.341 68.73 66.546 66.546 66.268	NLV: Decrease -2.393 -2.584 -3.283 -2.522 -13.043 -2.049 -3.699 -1.661 -0.254 -4.69 -4.71 -3.627 -1.23 NLV: Decrease -4.69 -4.661 -13.947 -3.412 -5.709 -4.804 -5.292 -1.1.407 -6.254 -4.474 -11.407 -6.254 -4.474 -11.407	R Decrease Ratio -3.421 % -3.688% -4.694% -3.686% -18.649% -2.929% -4.160% -5.289% -0.364% -1.102% -1.102% -1.102% -1.1198% -9.681% -5.186% -5.186% -1.759% R Decrease Ratio -6.705% -6.664% -1.759% -8.81% -6.869% -7.567% -3.483%	CIDer 94.706 95.277 93.333 99.83 52.847 94.513 87.978 79.572 99.4513 87.978 91.25 99.043 73.492 64.718 78.315 100.583 107.612 86.484 105.87 CIDer 81.779 80.075 83.994 42.833 85.97 77.867 67.299 82.556 99.625 63.003 71.916 60.521 71.843 74.022 87.75	Decrease -18.354 -17.783 -19.727 -13.23 -60.213 -8.547 -13.23 -60.213 -18.547 -25.082 -33.488 -14.783 -5.715 -21.81 -14.017 -39.568 -48.342 -34.746 -7.19 Caption Decrease -31.281 -32.985 -29.066 -19.463 -70.227 -70.29 -35.193 -45.761 -30.504 -13.435 -50.057 -41.144 -41.3435 -50.057 -41.144 -72.539 -41.144 -72.539 -41.144 -72.539 -73.281 -7	Decrease Ratio -16.234% -15.729% -17.448% -11.702% -53.258% -16.404% -22.1857% -29.619% -29.619% -13.075% -5.054% -19.290% -12.398% -30.732% -30.732% -30.732% -30.732% -48.19% -23.506% -6.360% -6.360% -10.206% -6.360% -11.366% -29.175%

Table 19: Performance and decrease ratio of Single LoRA on CLIP-BART against image corruptions given severity 1 to 5.

given seve	iity I	10 5.											
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	1	63.06	-2.28	-3.489%	48.036	-5.154	-9.689%	72.614	-0.966	-1.313%	108.958	-5.585	-4.876%
gaussian_noise	1	63.9	-2.28	-2.204%	48.179	-5.134	-9.420%	72.987	-0.593	-0.806%	111.859	-2.684	-2.343%
shot_noise	1	63.9	-1.44	-2.204%	48.712	-4.478	-8.419%	72.93	-0.65	-0.884%	111.362	-3.181	-2.777%
speckle_noise zoom_blur	1 1	63.97 58.19	-1.37 -7.15	-2.097% -10.943%	48.752 45.429	-4.438 -7.761	-8.344% -14.592%	72.671 58.677	-0.909 -14.903	-1.235% -20.255%	111.538 86.603	-3.005 -27.94	-2.623% -24.393%
defocus_blur	1	64.07	-1.13	-1.944%	48.879	-4.311	-8.105%	73.016	-0.564	-20.233%	111.315	-3.228	-24.393%
motion_blur	1	64.08	-1.26	-1.928%	48.283	-4.907	-9.226%	73.403	-0.177	-0.240%	109.757	-4.786	-4.178%
glass_blur	1	64.07	-1.27	-1.944% -0.857%	48.736	-4.454	-8.374% -7.552%	73.317 73.791	-0.263	-0.357%	110.711	-3.832	-3.345% -1.024%
gaussian_blur jpeg_compression	1 1	64.78 64.52	-0.56 -0.82	-0.857% -1.255%	49.173 49.086	-4.017 -4.104	-7.716%	72.872	0.211 -0.708	0.286% -0.962%	113.37 112.734	-1.173 -1.809	-1.024% -1.579%
contrast	1	63.72	-1.62	-2.479%	48.696	-4.494	-8.449%	73.001	-0.579	-0.787%	111.418	-3.125	-2.729%
elastic_transform	1	64.49	-0.85	-1.301%	49.181	-4.009	-7.537% -11.139%	72.442 71.48	-1.138	-1.547% -2.854%	111.973 102.811	-2.57 -11.732	-2.244% -10.242%
pixelate snow	1 1	61.14 60.18	-4.2 -5.16	-6.428% -7.897%	47.265 46.701	-5.925 -6.489	-11.139% -12.200%	71.48	-2.1 -2.344	-2.854% -3.186%	99,386	-11.732	-10.242%
frost	1	61.78	-3.56	-5.448%	47.392	-5.798	-10.900%	71.379	-2.201	-2.991%	102.864	-11.679	-10.196%
fog	1	63.1	-2.24 -0.49	-3.428%	48.402	-4.788	-9.002%	72.398	-1.182	-1.606% -0.104%	110.773	-3.77	-3.291%
brightness spatter	1 1	64.85 64.45	-0.49	-0.750% -1.362%	49.237 49.284	-3.953 -3.906	-7.432% -7.343%	73.504 73.432	-0.076 -0.148	-0.104% -0.201%	113.739 112.657	-0.804 -1.886	-0.702% -1.647%
saturate	1	62.13	-3.21	-4.913%	47.909	-5.281	-9.928%	71.609	-1.971	-2.679%	110.161	-4.382	-3.826%
	severity		VQ	A		GQ/	A		NLV	R		Captio	n
corruption		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	2	62.1	-3.24	-4.959%	47.957	-5.233	-9.839%	72.025	-1.555	-2.113%	105.736	-8.807	-7.689%
gaussian_noise shot_noise	2 2	63.05 62.87	-2.29 -2.47	-3.505% -3.780%	47.758 47.845	-5.432 -5.345	-10.212% -10.048%	72.169 72.47	-1.411 -1.11	-1.918% -1.508%	109.572 108.551	-4.971 -5.992	-4.340% -5.231%
speckle_noise	2	63.46	-1.88	-2.877%	48.307	-4.883	-9.181%	72.298	-1.282	-1.742%	109.917	-4.626	-4.039%
zoom_blur	2	55.27	-10.07	-15.412%	44.196	-8.994	-16.909%	63.212	-10.368	-14.090%	73.46	-41.083	-35.867%
defocus_blur motion_blur	2 2	63.3 62.82	-2.04 -2.52	-3.122% -3.857%	48.728 48.012	-4.462 -5.178	-8.389% -9.734%	72.226 72.8	-1.354 -0.78	-1.840% -1.060%	109.109 106.62	-5.434 -7.923	-4.744% -6.917%
glass_blur	2	62.8	-2.54	-3.887%	48.124	-5.066	-9.525%	72.255	-1.325	-1.801%	106.694	-7.849	-6.853%
gaussian_blur	2	63.67	-1.67	-2.556%	48.696	-4.494	-8.449%	73.001	-0.579	-0.787%	109.134	-5.409	-4.722%
jpeg_compression	2 2	64.41	-0.93	-1.423%	48.315	-4.875	-9.166%	73.03	-0.55	-0.747%	112.252	-2.291	-2.000%
contrast elastic_transform	2	62.82 61.37	-2.52 -3.97	-3.857% -6.076%	48.171 46.748	-5.019 -6.442	-9.435% -12.111%	72.269 69.513	-1.311 -4.067	-1.781% -5.527%	109.635 96.654	-4.908 -17.889	-4.285% -15.618%
pixelate	2	60.63	-4.71	-7.208%	47.194	-5.996	-11.274%	68.624	-4.956	-6.736%	99.434	-15.109	-13.191%
snow	2	57.21	-8.13	-12.443%	44.737	-8.453	-15.892%	68.667	-4.913	-6.678%	88.402	-26.141	-22.822%
frost fog	2 2	58.36 62.28	-6.98 -3.06	-10.683% -4.683%	45.691 48.37	-7.499 -4.82	-14.099% -9.062%	69.513 68.207	-4.067 -5.373	-5.527% -7.302%	91.338 108.513	-23.205 -6.03	-20.259% -5.264%
brightness	2	64.28	-1.06	-1.622%	49.197	-3.993	-7.507%	72.815	-0.765	-1.040%	113.05	-1.493	-1.303%
spatter	2	61.17	-4.17	-6.382%	47.671	-5.519	-10.377%	71.552	-2.028	-2.757%	103.588	-10.955	-9.564%
saturate	2	59.18	-6.16	-9.428%	47.337	-5.853	-11.005%	69.858	-3.722	-5.059%	105.82	-8.723	-7.615%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	3	61.21	-4.13	-6.321%	47.384	-5.806	-10.915%	70.934	-2.646	-3.596%	103.522	-11.021	-9.621%
gaussian_noise	3	61.36	-3.98	-6.091%	47.376	-5.814	-10.930%	71.422	-2.158	-2.932%	103.362	-11.181	-9.762%
shot_noise	3	61.22	-4.12	-6.305%	47.71	-5.48	-10.302%	70.863	-2.717	-3.693%	103.926	-10.617	-9.269%
speckle_noise zoom_blur	3	61.7 52.63	-3.64 -12.71	-5.571% -19.452%	47.615 41.827	-5.575 -11.363	-10.482% -21.363%	70.906 60.729	-2.674 -12.851	-3.635% -17.465%	104.399 60.226	-10.144 -54.317	-8.856% -47.421%
defocus_blur	3	61.45	-3.89	-5.953%	47.36	-5.83	-10.960%	70.604	-2.976	-4.044%	102.944	-11.599	-10.126%
motion_blur	3	60.76	-4.58	-7.009%	47.297	-5.893	-11.079%	71.379	-2.201	-2.991%	99.824	-14.719	-12.850%
glass_blur	3	58.01	-7.33	-11.218%	44.959	-8.231	-15.474%	69.585	-3.995 -2.258	-5.429%	87.905	-26.638	-23.256%
gaussian_blur jpeg_compression	3	62.24 63.99	-3.1 -1.35	-4.744% -2.066%	48.004 48.45	-5.186 -4.74	-9.749% -8.912%	71.322 72.542	-2.238	-3.069% -1.411%	104.888 111.219	-9.655 -3.324	-8.429% -2.902%
contrast	3	61.6	-3.74	-5.724%	47.591	-5.599	-10.526%	70.834	-2.746	-3.732%	105.57	-8.973	-7.834%
elastic_transform	3	62.97	-2.37	-3.627%	48.02	-5.17	-9.719%	72.757	-0.823	-1.118%	107.975	-6.568	-5.734%
pixelate snow	3	58.51 55.74	-6.83 -9.6	-10.453% -14.692%	45.238 43.711	-7.952 -9.479	-14.951% -17.821%	66.844 66.844	-6.736 -6.736	-9.155% -9.155%	90.065 80.578	-24.478 -33.965	-21.370% -29.652%
frost	3	55.94	-9.4	-14.386%	44.22	-8.97	-16.864%	67.705	-5.875	-7.985%	82.324	-32.219	-28.128%
fog	3	61.13	-4.21	-6.443%	48.132	-5.058	-9.510%	71.552	-2.028	-2.757%	105.853	-8.69	-7.586%
brightness spatter	3	63.51 59.7	-1.83 -5.64	-2.801% -8.632%	48.338 46.351	-4.852 -6.839	-9.121% -12.858%	72.528 70.877	-1.052 -2.703	-1.430% -3.674%	110.715 96.886	-3.828 -17.657	-3.342% -15.415%
saturate	3	64.25	-1.09	-1.668%	48.259	-4.931	-9.271%	72.815	-0.765	-1.040%	111.882	-2.661	-2.323%
corruption	severity		VQ	A		GQA	Λ.		NLV	R		Captio	n
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	4	58.42	-6.92	-10.591%	46.327	-6.863	-12.903% -12.275%	68.982	-4.598	-6.249%	93.878	-20.665	-18.041%
gaussian_noise shot_noise	4	59.01 58.29	-6.33 -7.05	-9.688% -10.790%	46.661 46.311	-6.529 -6.879	-12.275% -12.933%	69.054 69.054	-4.526 -4.526	-6.151% -6.151%	96.203 94.592	-18.34 -19.951	-16.011% -17.418%
speckle_noise	4	59.93	-5.41	-8.280%	47.313	-5.877	-11.050%	70.044	-3.536	-4.805%	101.619	-12.924	-11.283%
zoom_blur	4	50.88	-14.46	-22.130%	40.38	-12.81	-24.083%	59.15	-14.43	-19.611%	50.257	-64.286	-56.124%
defocus_blur motion_blur	4	59.47 58.3	-5.87 -7.04	-8.984% -10.774%	46.637 46.343	-6.553 -6.847	-12.320% -12.873%	69.829 68.624	-3.751 -4.956	-5.098% -6.736%	95.621 87.717	-18.922 -26.826	-16.520% -23.420%
glass_blur	4	56.24	-9.1	-13.927%	43.743	-9.447	-17.761%	68.824	-4.756	-6.463%	79.445	-35.098	-30.642%
gaussian_blur	4	60.26	-5.08	-7.775%	46.78	-6.41	-12.051%	70.576	-3.004	-4.083%	97.958	-16.585	-14.480%
jpeg_compression contrast	4 4	62.55 57.65	-2.79 -7.69	-4.270% -11.769%	47.726 45.611	-5.464 -7.579	-10.272% -14.248%	71.738 67.805	-1.842 -5.775	-2.503% -7.848%	106.674 92.032	-7.869 -22.511	-6.870% -19.653%
elastic_transform	4	60.95	-4.39	-6.719%	46.828	-6.362	-14.248%	71.753	-1.827	-2.484%	99.181	-15.362	-13.412%
pixelate	4	54.42	-10.92	-16.713%	42.9	-10.29	-19.345%	63.585	-9.995	-13.583%	73.761	-40.782	-35.604%
snow	4 4	52.74 55.16	-12.6 -10.18	-19.284% -15.580%	42.137 43.799	-11.053 -9.391	-20.780% -17.656%	64.504 67.59	-9.076 -5.99	-12.335% -8.141%	65.683 79.757	-48.86 -34.786	-42.657% -30.370%
frost fog	4	59.66	-5.68	-15.580% -8.693%	46.732	-9.391 -6.458	-17.050% -12.141%	70.777	-2.803	-8.141% -3.810%	101.097	-34.786	-30.370% -11.739%
brightness	4	62.69	-2.65	-4.056%	48.06	-5.13	-9.644%	71.566	-2.014	-2.737%	108.235	-6.308	-5.507%
spatter	4	57.6	-7.74 -4.15	-11.846%	44.864	-8.326 -6.036	-15.653%	69.025	-4.555 2.545	-6.190% 2.450%	87.767	-26.776	-23.376%
saturate	4	61.19		-6.351%	47.154		-11.348%	71.035	-2.545	-3.459%	106.855	-7.688	-6.712%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	5	54.72	-10.62	-16.253%	44.618	-8.572	-16.117%	66.801	-6.779	-9.214%	81.349	-33.194	-28.979%
gaussian_noise	5	54.93	-10.41	-15.932%	43.99	-9.2	-17.297%	66.844	-6.736	-9.155%	81.511	-33.032	-28.838%
shot_noise	5	55.59	-9.75	-14.922%	45.039	-8.151	-15.324%	66.628	-6.952	-9.448%	85.88	-28.663	-25.024%
speckle_noise zoom_blur	5 5	58.38 48.87	-6.96 -16.47	-10.652% -25.207%	46.716 38.973	-6.474 -14.217	-12.171% -26.729%	69.054 57.399	-4.526 -16.181	-6.151% -21.991%	93.202 41.466	-21.341 -73.077	-18.631% -63.799%
defocus_blur	5	57.54	-7.8	-11.938%	45.723	-7.467	-14.039%	68.107	-5.473	-7.438%	85.975	-28.568	-24.941%
motion_blur	5	55.87	-9.47	-14.493%	44.363	-8.827	-16.595%	66.915	-6.665	-9.058%	76.136	-38.407	-33.530%
glass_blur	5	53.69	-11.65	-17.830%	42.145	-11.045	-20.765%	66.643	-6.937 7.253	-9.428% 0.857%	67.718	-46.825	-40.880% 27.603%
gaussian_blur jpeg_compression	5 5	56.53 60.58	-8.81 -4.76	-13.483% -7.285%	44.761 46.86	-8.429 -6.33	-15.848% -11.901%	66.327 70.475	-7.253 -3.105	-9.857% -4.220%	82.823 100.427	-31.72 -14.116	-27.693% -12.324%
contrast	5	50.37	-14.97	-22.911%	41.183	-12.007	-22.574%	61.174	-12.406	-16.860%	64.944	-49.599	-43.302%
elastic_transform	5	55.21	-10.13	-15.504%	42.24	-10.95	-20.586%	67.49	-6.09	-8.277%	72.111	-42.432	-37.044%
pixelate snow	5 5	52.09 53.64	-13.25 -11.7	-20.279% -17.906%	40.754 42.686	-12.436 -10.504	-23.381% -19.749%	60.586 64.619	-12.994 -8.961	-17.660% -12.179%	61.093 72.42	-53.45 -42.123	-46.663% -36.775%
frost	5	53.78	-11.56	-17.692%	42.956	-10.304	-19.241%	66.614	-6.966	-12.179% -9.467%	73.498	-42.123 -41.045	-35.834%
fog	5	55.92	-9.42	-14.417%	44.371	-8.819	-16.580%	68.437	-5.143	-6.990%	87.241	-27.302	-23.835%
brightness spatter	5 5	61.26 54.6	-4.08 -10.74	-6.244% -16.437%	47.297 43.433	-5.893 -9.757	-11.079% -18.344%	70.389 66.37	-3.191 -7.21	-4.337% -9.799%	105.519 74.293	-9.024 -40.25	-7.878% -35.140%
saturate	5	58.92	-6.42	-9.826%	46.438	-6.752	-12.694%	68.035	-5.545	-7.536%	99.632	-14.911	-13.018%

Table 20: Performance and decrease ratio of Single Prompt on CLIP-BART against image corruptions given severity 1 to 5.

given seve	erity i	to 5											
corruption	severity		VQ.			GQ/			NLV		CID.	Caption	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	1	43.08 43.45	-0.92 -0.55	-2.091% -1.250%	37.033 37.112	-0.507 -0.428	-1.351% -1.139%	52.289 52.332	0.339 0.382	0.653% 0.736%	98.322 100.992	-5.378 -2.708	-5.186% -2.611%
shot_noise	1	43.4	-0.55	-1.364%	37.391	-0.149	-0.398%	51.974	0.024	0.045%	100.786	-2.914	-2.810%
speckle_noise	1	43.48	-0.52	-1.182%	37.438	-0.102	-0.271%	52.49	0.54	1.040%	100.787	-2.913	-2.809%
zoom_blur defocus_blur	1 1	41.64 43.56	-2.36 -0.44	-5.364% -1.000%	35.546 37.112	-1.994 -0.428	-5.311% -1.139%	51.643 52.103	-0.307 0.153	-0.590% 0.294%	78.501 100.306	-25.199 -3.394	-24.300% -3.272%
motion_blur	1	43.55	-0.45	-1.023%	37.081	-0.459	-1.224%	52.088	0.138	0.266%	99.851	-3.849	-3.712%
glass_blur	1	43.69	-0.31	-0.705%	37.057	-0.483	-1.287%	51.816	-0.134	-0.259%	100.838	-2.862	-2.760%
gaussian_blur jpeg_compression	1 1	43.89 43.82	-0.11 -0.18	-0.250% -0.409%	37.383 37.375	-0.157 -0.165	-0.419% -0.440%	51.615 52.404	-0.335 0.454	-0.645% 0.874%	102.584 102.643	-1.116 -1.057	-1.076% -1.019%
contrast	1	43.46	-0.13	-1.227%	37.192	-0.103	-0.927%	51.299	-0.651	-1.253%	101.459	-2.241	-2.161%
elastic_transform	1	43.86	-0.14	-0.318%	37.049	-0.491	-1.308%	51.256	-0.694	-1.336%	100.643	-3.057	-2.948%
pixelate	1 1	42.6 41.66	-1.4 -2.34	-3.182% -5.318%	36.19 35.697	-1.35 -1.843	-3.596% -4.909%	51.931 50.639	-0.019 -1.311	-0.037% -2.524%	91.587 89.327	-12.113 -14.373	-11.681% -13.860%
snow frost	1	42.4	-1.6	-3.636%	36.174	-1.366	-3.638%	52.031	0.081	0.156%	92.949	-10.751	-10.368%
fog	1	43.2	-0.8	-1.818%	37.24	-0.3	-0.800%	51.787	-0.163	-0.314%	99.78	-3.92	-3.780%
brightness	1	43.95 43.73	-0.05 -0.27	-0.114% -0.614%	37.502 37.542	-0.038 0.002	-0.101% 0.005%	51.773 51.787	-0.177 -0.163	-0.341% -0.314%	102.852 102.319	-0.848 -1.381	-0.817%
spatter saturate	1	42.82	-1.18	-2.682%	37.605	0.065	0.174%	51.787	-0.103	-0.839%	100.085	-3.615	-1.332% -3.486%
-			VQ.	Λ.		GQA			NLV			Captio	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	2	42.77	-1.23	-2.795%	36.723	-0.817	-2.177%	52.275	0.325	0.626%	95.272	-8.428	-8.127%
gaussian_noise	2	43.29	-0.71	-1.614%	37.065	-0.475	-1.266%	52.131	0.181	0.349%	98.721	-4.979	-4.802%
shot_noise	2	43.1	-0.9	-2.045%	36.858	-0.682	-1.817%	52.318	0.368	0.709%	98.176	-5.524	-5.326%
speckle_noise zoom_blur	2 2	43.53 40.21	-0.47 -3.79	-1.068% -8.614%	37.081 34.417	-0.459 -3.123	-1.224% -8.318%	52.131 51.844	0.181 -0.106	0.349% -0.203%	99.913 67.813	-3.787 -35.887	-3.652% -34.607%
defocus_blur	2	43.38	-0.62	-1.409%	36.834	-0.706	-1.880%	52.49	0.54	1.040%	97.478	-6.222	-6.000%
motion_blur	2	43.15	-0.85	-1.932%	36.945	-0.595	-1.584%	52.017	0.067	0.128%	96.595	-7.105	-6.851%
glass_blur gaussian_blur	2 2	43.14 43.5	-0.86 -0.5	-1.955% -1.136%	36.683 36.985	-0.857 -0.555	-2.283% -1.478%	51.773 52.246	-0.177 0.296	-0.341% 0.570%	96.533 98.647	-7.167 -5.053	-6.911% -4.872%
jpeg_compression	2	43.73	-0.27	-0.614%	37.446	-0.094	-0.250%	52.175	0.225	0.432%	101.048	-2.652	-2.558%
contrast	2	43.21	-0.79	-1.795%	36.786	-0.754	-2.007%	51.816	-0.134	-0.259%	98.812	-4.888	-4.713%
elastic_transform pixelate	2 2	42.63 42.26	-1.37 -1.74	-3.114% -3.955%	35.999 36.166	-1.541 -1.374	-4.104% -3.659%	51.069 51.586	-0.881 -0.364	-1.695% -0.701%	87.721 88.7	-15.979 -15.0	-15.408% -14.465%
snow	2	40.73	-1.74	-3.955% -7.432%	34.751	-1.374	-3.639% -7.429%	50.969	-0.364	-1.889%	78.355	-15.0	-14.465% -24.441%
frost	2	41.3	-2.7	-6.136%	35.689	-1.851	-4.930%	52.131	0.181	0.349%	81.882	-21.818	-21.039%
fog	2	42.97	-1.03	-2.341%	37.017	-0.523	-1.393%	51.443	-0.507	-0.977%	98.666	-5.034	-4.855%
brightness spatter	2 2	43.71 42.4	-0.29 -1.6	-0.659% -3.636%	37.232 36.333	-0.308 -1.207	-0.821% -3.214%	51.758 51.342	-0.192 -0.608	-0.369% -1.170%	102.805 93.188	-0.895 -10.512	-0.863% -10.137%
saturate	2	41.84	-2.16	-4.909%	37.335	-0.205	-0.546%	51.615	-0.335	-0.645%	97.293	-6.407	-6.178%
			VQ.	A		GQA	4		NLV	R		Captio	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	3	42.46	-1.54	-3.500%	36.667	-0.873	-2.325%	52.218	0.268	0.515%	92.925	-10.775	-10.391%
gaussian_noise	3	42.71	-1.29	-2.932%	36.437	-1.103	-2.939%	52.06	0.11	0.211%	93.189	-10.511	-10.136%
shot_noise	3	42.55 42.72	-1.45 -1.28	-3.295% -2.909%	36.492 37.343	-1.048 -0.197	-2.791% -0.525%	52.074 51.931	0.124 -0.019	0.239% -0.037%	93.719 94.595	-9.981 -9.105	-9.625% -8.780%
speckle_noise zoom_blur	3	39.03	-1.28 -4.97	-11.295%	33.71	-3.83	-10.203%	51.787	-0.163	-0.314%	56.77	-46.93	-45.256%
defocus_blur	3	42.76	-1.24	-2.818%	36.198	-1.342	-3.575%	52.203	0.253	0.487%	91.529	-12.171	-11.737%
motion_blur	3	42.64	-1.36	-3.091%	36.58	-0.96	-2.558%	51.629	-0.321	-0.618%	91.016	-12.684	-12.231%
glass_blur gaussian_blur	3	41.27 42.89	-2.73 -1.11	-6.205% -2.523%	35.133 36.453	-2.407 -1.087	-6.412% -2.897%	51.543 52.175	-0.407 0.225	-0.783% 0.432%	78.493 93.08	-25.207 -10.62	-24.308% -10.241%
jpeg_compression	3	43.57	-0.43	-0.977%	37.526	-0.014	-0.038%	52.117	0.167	0.322%	100.871	-2.829	-2.728%
contrast	3	42.55	-1.45	-3.295%	36.301	-1.239	-3.299%	51.256	-0.694	-1.336%	94.962	-8.738	-8.426%
elastic_transform pixelate	3	43.27 41.63	-0.73 -2.37	-1.659% -5.386%	36.604 35.149	-0.936 -2.391	-2.494% -6.370%	52.16 50.409	0.21 -1.541	0.405% -2.966%	97.619 79.369	-6.081 -24.331	-5.864% -23.463%
snow	3	39.84	-4.16	-9.455%	34.536	-3.004	-8.001%	50.926	-1.024	-1.972%	70.721	-32.979	-31.802%
frost	3	40.14	-3.86	-8.773%	34.775	-2.765	-7.365%	51.428	-0.522	-1.005%	74.116	-29.584	-28.529%
fog brightness	3	42.5 43.24	-1.5 -0.76	-3.409% -1.727%	36.619 36.826	-0.921 -0.714	-2.452% -1.901%	51.299 51.787	-0.651 -0.163	-1.253% -0.314%	95.292 100.519	-8.408 -3.181	-8.108% -3.067%
spatter	3	41.72	-2.28	-5.182%	35.817	-1.723	-4.591%	51.629	-0.103	-0.618%	87.11	-16.59	-15.998%
saturate	3	43.73	-0.27	-0.614%	37.502	-0.038	-0.101%	51.931	-0.019	-0.037%	102.193	-1.507	-1.453%
			VQ	A		GQ	A		NLV	'R		Captio	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	4	41.7	-2.3	-5.227%	35.832	-1.708	-4.549%	51.313	-0.637	-1.226%	85.122	-18.578	-17.915%
gaussian_noise	4	41.95	-2.05	-4.659%	36.262	-1.278	-3.405%	51.155	-0.795	-1.529%	85.157	-18.543	-17.881%
shot_noise speckle_noise	4 4	41.82 42.23	-2.18 -1.77	-4.955% -4.023%	36.286 36.874	-1.254 -0.666	-3.342% -1.774%	51.385 51.486	-0.565 -0.464	-1.087% -0.894%	83.743 90.264	-19.957 -13.436	-19.245% -12.957%
zoom_blur	4	38.31	-5.69	-12.932%	32.97	-4.57	-12.173%	51.773	-0.177	-0.341%	48.834	-54.866	-52.908%
defocus_blur	4	42.18	-1.82	-4.136%	35.817	-1.723	-4.591%	52.146	0.196	0.377%	85.495	-18.205	-17.555%
motion_blur	4	41.64 40.7	-2.36	-5.364% -7.500%	35.3 34.449	-2.24 -3.091	-5.968% -8.234%	51.816 51.012	-0.134 -0.938	-0.259% -1.806%	79.89 69.33	-23.81 -34.37	-22.961% -33.144%
glass_blur gaussian_blur	4	42.18	-3.3 -1.82	-4.136%	35.999	-1.541	-4.104%	52.505	0.555	1.068%	87.297	-16.403	-15.818%
jpeg_compression	4	42.99	-1.01	-2.295%	36.763	-0.777	-2.071%	51.859	-0.091	-0.176%	97.132	-6.568	-6.334%
contrast elastic transform	4	41.05	-2.95	-6.705% 2.055%	35.61	-1.93	-5.142% 4.072%	49.691 52.706	-2.259	-4.348% 1.454%	82.68	-21.02	-20.270%
pixelate	4	42.7 40.2	-1.3 -3.8	-2.955% -8.636%	35.673 34.147	-1.867 -3.393	-4.972% -9.039%	50.165	0.756 -1.785	1.454% -3.436%	89.234 64.483	-14.466 -39.217	-13.949% -37.818%
snow	4	38.84	-5.16	-11.727%	33.686	-3.854	-10.267%	50.653	-1.297	-2.496%	57.262	-46.438	-44.781%
frost	4	39.96	-4.04	-9.182% -4.523%	34.552	-2.988	-7.958%	52.677	0.727	1.399%	69.632	-34.068 -13.325	-32.852%
fog brightness	4 4	42.01 42.89	-1.99 -1.11	-4.523% -2.523%	35.92 36.699	-1.62 -0.841	-4.316% -2.240%	51.629 51.443	-0.321 -0.507	-0.618% -0.977%	90.375 98.275	-13.325 -5.425	-12.849% -5.232%
spatter	4	40.86	-3.14	-7.136%	35.721	-1.819	-4.845%	52.361	0.411	0.791%	78.18	-25.52	-24.610%
saturate	4	42.56	-1.44	-3.273%	36.635	-0.905	-2.410%	51.213	-0.737	-1.419%	97.633	-6.067	-5.851%
			VQ	A		GQ	A		NLV	'R		Captio	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	5	40.35	-3.65	-8.295%	35.061	-2.479	-6.603%	50.754	-1.196	-2.303%	72.487	-31.213	-30.099%
gaussian_noise	5	40.16	-3.84	-8.727%	35.554	-1.986	-5.290%	50.725	-1.225	-2.358%	72.331	-31.369	-30.250%
shot_noise speckle_noise	5 5	40.52 41.61	-3.48 -2.39	-7.909% -5.432%	35.18 36.365	-2.36 -1.175	-6.285% -3.130%	50.452 50.581	-1.498 -1.369	-2.883% -2.635%	75.718 84.932	-27.982 -18.768	-26.983% -18.098%
zoom_blur	5	37.63	-6.37	-14.477%	32.35	-5.19	-13.825%	51.371	-0.579	-1.115%	40.531	-63.169	-60.915%
defocus_blur	5	41.28	-2.72	-6.182%	35.562	-1.978	-5.269%	51.902	-0.048	-0.09%	76.78	-26.92	-25.960%
motion_blur glass blur	5	40.97 39.71	-3.03 -4.29	-6.886% -9.750%	34.807	-2.733 -3.727	-7.281% -9.928%	51.873 51.313	-0.077	-0.15% -1.23%	70.319 58.32	-33.381 -45.38	-32.190% 43.761%
glass_blur gaussian_blur	5 5	40.63	-4.29 -3.37	-9.750% -7.659%	33.813 35.021	-3.727 -2.519	-9.928% -6.709%	51.313	-0.637 -0.206	-1.23% -0.40%	58.52 73.44	-45.38 -30.26	-43.761% -29.180%
jpeg_compression	5	42.36	-1.64	-3.727%	36.548	-992.0	-2.643%	51.414	-0.536	-1.032%	89.506	-14.194	-13.687%
contrast	5	38.53	-5.47	-12.432%	33.805	-3.735	-9.949%	49.677	-2.273	-4.375%	58.412	-45.288	-43.672%
elastic_transform pixelate	5 5	40.39 38.95	-3.61 -5.05	-8.205% -11.477%	34.012 32.74	-3.528 -4.8	-9.399% -12.787%	51.285 49.548	-0.665 -2.402	-1.281% -4.624%	64.682 52.919	-39.018 -50.781	-37.626% -48.969%
snow	5	38.98	-5.02	-11.409%	34.497	-3.043	-8.107%	50.007	-1.943	-3.740%	64.575	-39.125	-37.729%
frost	5	39.44	-4.56	-10.364%	34.855	-2.685	-7.154%	50.811	-1.139	-2.193%	66.29	-37.41	-36.075%
fog	5	40.96	-3.04	-6.909% 3.273%	35.308	-2.232	-5.947% 3.511%	51.213	-0.737	-1.419%	78.047	-25.653	-24.738% 7.851%
brightness spatter	5 5	42.56 39.81	-1.44 -4.19	-3.273% -9.523%	36.222 34.409	-1.318 -3.131	-3.511% -8.340%	51.816 50.696	-0.134 -1.254	-0.26% -2.414%	95.558 66.092	-8.142 -37.608	-7.851% -36.266%
saturate	5	41.28	-2.72	-6.182%	35.904	-1.636	-4.358%	50.983	-0.967	-1.861%	89.98	-13.72	-13.231%

Table 21: Performance and decrease ratio of Full Finetuning on CLIP-T5 against image corruptions given severity 1 to 5.

corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	1	64.29	-2.0	-3.017%	54.19	-2.63	-4.629%	72.413	-1.647	-2.224%	106.157	-5.343	-4.791%
gaussian_noise shot noise	1 1	65.01 65.07	-1.28 -1.22	-1.931% -1.840%	54.969 54.818	-1.851 -2.002	-3.258% -3.524%	73.159 73.188	-0.901 -0.872	-1.216% -1.178%	109.054 108.978	-2.446 -2.522	-2.194% -2.261%
snot_noise speckle_noise	1	65.07	-1.22 -1.24	-1.840% -1.871%	54.818	-2.002 -2.264	-3.524% -3.985%	73.188	-0.872 -1.016	-1.178% -1.371%	108.978	-2.522 -2.456	-2.261% -2.202%
zoom_blur	1	59.3	-6.99	-10.545%	51.375	-5.445	-9.582%	59.035	-15.025	-20.287%	84.714	-26.786	-24.023%
defocus_blur motion blur	1	65.01 64.56	-1.28 -1.73	-1.931% -2.610%	54.858 54.961	-1.962 -1.859	-3.454% -3.272%	73.475 73.016	-0.585 -1.044	-0.790% -1.410%	108.776 107.017	-2.724 -4.483	-2.443% -4.021%
glass_blur	1	65.2	-1.73	-1.644%	54.937	-1.883	-3.314%	73.26	-0.8	-1.081%	107.017	-2.531	-2.270%
gaussian_blur	1	65.83	-0.46	-0.694%	55.541	-1.279	-2.250%	74.107	0.047	0.063%	111.538	0.038	0.035%
jpeg_compression	1	65.66	-0.63 -1.19	-0.950% -1.795%	55.406	-1.414 -1.191	-2.488%	73.776	-0.284	-0.383%	111.035	-0.465 -2.9	-0.417% -2.600%
contrast elastic_transform	1	65.1 65.51	-0.78	-1.177% -1.177%	55.629 55.192	-1.191	-2.096% -2.866%	73.288 73.489	-0.772 -0.571	-1.042% -0.771%	108.6 109.463	-2.9	-2.800% -1.827%
pixelate	1	62.9	-3.39	-5.114%	54.349	-2.471	-4.349%	71.609	-2.451	-3.309%	100.583	-10.917	-9.791%
snow	1	61.47	-4.82	-7.271%	51.693	-5.127	-9.022%	72.068	-1.992	-2.689%	98.17	-13.33	-11.955%
frost fog	1	62.75 64.43	-3.54 -1.86	-5.340% -2.806%	53.069 55.152	-3.751 -1.668	-6.602% -2.936%	72.269 73.245	-1.791 -0.815	-2.418% -1.100%	101.346 108.376	-10.154 -3.124	-9.107% -2.802%
brightness	1	65.96	-0.33	-0.498%	55.184	-1.636	-2.880%	74.293	0.233	0.315%	111.749	0.249	0.223%
spatter saturate	1	65.54 63.3	-0.75 -2.99	-1.131% -4.510%	55.541 54.412	-1.279 -2.408	-2.250% -4.237%	74.566 72.7	0.506 -1.36	0.683% -1.837%	110.042 108.141	-1.458 -3.359	-1.308% -3.012%
		05.5	VQ.		34.412	-2.400 GQ/		72.7	NLV		100.141	Captio	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Rati
impulse_noise gaussian_noise	2 2	63.53 64.59	-2.76 -1.7	-4.164% -2.564%	53.602 54.055	-3.218 -2.765	-5.664% -4.867%	72.499 72.786	-1.561 -1.274	-2.108% -1.720%	103.546 107.698	-7.954 -3.802	-7.133% -3.410%
shot_noise	2	64.2	-2.09	-3.153%	53.665	-3.155	-5.552%	72.169	-1.891	-2.554%	106.268	-5.232	-4.692%
speckle_noise	2	64.79	-1.5	-2.263%	54.468	-2.352	-4.139%	72.872	-1.188	-1.604%	107.593	-3.907	-3.504%
zoom_blur defocus_blur	2 2	56.2 64.44	-10.09 -1.85	-15.221% -2.791%	49.054 54.556	-7.766 -2.264	-13.668% -3.985%	63.944 72.757	-10.116 -1.303	-13.659% -1.759%	70.213 106.958	-41.287 -4.542	-37.029% -4.074%
motion_blur	2	63.79	-2.5	-3.771%	54.667	-2.153	-3.789%	72.312	-1.748	-2.360%	104.51	-6.99	-6.269%
glass_blur	2	64.06	-2.23	-3.364%	54.238	-2.582	-4.545%	71.997	-2.063	-2.786%	105.223	-6.277	-5.630%
gaussian_blur	2 2	64.69 65.47	-1.6 -0.82	-2.414% -1.237%	54.754 55.144	-2.066 -1.676	-3.635% -2.950%	73.059 73.618	-1.001 -0.442	-1.352% -0.596%	108.336 109.517	-3.164 -1.983	-2.837% -1.778%
jpeg_compression contrast	2	64.42	-0.82	-1.237%	54.969	-1.851	-2.950% -3.258%	72.772	-0.442	-0.396%	106.565	-1.983 -4.935	-1.778% -4.426%
elastic_transform	2	62.35	-3.94	-5.944%	53.037	-3.783	-6.658%	69.757	-4.303	-5.810%	96.449	-15.051	-13.498%
pixelate	2 2	61.99	-4.3 7.88	-6.487%	53.586	-3.234	-5.692%	69.068	-4.992 4.776	-6.740%	98.122	-13.378	-11.998%
snow frost	2	58.41 59.26	-7.88 -7.03	-11.887% -10.605%	49.881 50.811	-6.939 -6.009	-12.213% -10.576%	69.284 69.628	-4.776 -4.432	-6.449% -5.984%	86.106 88.499	-25.394 -23.001	-22.775% -20.628%
fog	2	63.61	-2.68	-4.043%	54.762	-2.058	-3.621%	69.155	-4.905	-6.624%	106.338	-5.162	-4.629%
brightness	2	65.01	-1.28	-1.931%	55.033	-1.787	-3.146%	73.475	-0.585	-0.790%	110.275	-1.225 -10.798	-1.099%
spatter saturate	2 2	62.33 60.63	-3.96 -5.66	-5.974% -8.538%	53.021 53.435	-3.799 -3.385	-6.686% -5.958%	72.513 69.987	-1.547 -4.073	-2.088% -5.499%	100.702 102.159	-10.798 -9.341	-9.684% -8.377%
corruption	severity	A 00	VQ. Decrease		4.00	GQ/		4.00	NLV Decrease	R Decrease Ratio	CIDer	Captio	
impulse_noise	3	Acc 62.53	-3.76	Decrease Ratio	Acc 53.236	Decrease -3.584	-6.308%	Acc 71.623	-2.437	-3.290%	101.179	-10.321	-9.257%
gaussian_noise	3	63.01	-3.28	-4.948%	52.965	-3.855	-6.784%	71.666	-2.394	-3.232%	101.83	-9.67	-8.673%
shot_noise speckle_noise	3	62.72 62.82	-3.57 -3.47	-5.385% -5.235%	53.379 53.49	-3.441 -3.33	-6.056% -5.860%	70.791 71.422	-3.269 -2.638	-4.414% -3.561%	101.888 101.97	-9.612 -9.53	-8.621% -8.547%
zoom_blur	3	53.66	-12.63	-19.053%	47.567	-9.253	-16.284%	61.174	-12.886	-17.399%	56.507	-54.993	-49.321%
defocus_blur	3	62.72	-3.57	-5.385%	53.538	-3.282	-5.776%	70.848	-3.212	-4.337%	100.814	-10.686	-9.584%
motion_blur glass_blur	3	62.1 59.02	-4.19 -7.27	-6.321% -10.967%	53.339 50.493	-3.481 -6.327	-6.126% -11.135%	70.705 68.939	-3.355 -5.121	-4.530% -6.914%	98.675 85.372	-12.825 -26.128	-11.502% -23.433%
gaussian_blur	3	63.15	-3.14	-4.737%	54.087	-2.733	-4.811%	71.753	-2.307	-3.116%	102.983	-8.517	-7.638%
jpeg_compression	3	64.98	-1.31	-1.976%	54.921	-1.899	-3.342%	73.662	-0.398	-0.538%	108.661	-2.839	-2.547%
contrast elastic transform	3	62.82 64.15	-3.47 -2.14	-5.235% -3.228%	54.158 53.808	-2.662 -3.012	-4.685% -5.301%	71.509 72.47	-2.551 -1.59	-3.445% -2.147%	101.702 104.869	-9.798 -6.631	-8.788% -5.947%
pixelate	3	59.64	-6.65	-10.032%	52.385	-4.435	-7.805%	67.906	-6.154	-8.310%	88.665	-22.835	-20.480%
snow	3	56.65	-9.64	-14.542%	48.831	-7.989	-14.060%	66.858	-7.202	-9.724%	78.893	-32.607	-29.244%
frost	3	56.82	-9.47	-14.286%	49.547 54.206	-7.273	-12.800% -4.601%	67.447 72.054	-6.613 -2.006	-8.930% -2.709%	79.193 103.031	-32.307	-28.975% -7.596%
fog brightness	3	62.46 64.52	-3.83 -1.77	-5.778% -2.670%	54.206	-2.614 -1.859	-4.601% -3.272%	72.686	-1.374	-1.856%	103.031	-8.469 -3.081	-7.396%
spatter	3	60.84	-5.45	-8.221%	52.369	-4.451	-7.833%	71.882	-2.178	-2.941%	95.642	-15.858	-14.222%
saturate	3	65.17	-1.12 VQ.	-1.690%	54.953	-1.867 GQA	-3.286%	73.374	-0.686 NLV	-0.926%	110.019	-1.481 Captio	-1.328%
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise	4	60.13 60.37	-6.16 -5.92	-9.293% -8.930%	51.813 52.21	-5.007	-8.813% -8.113%	69.198 69.887	-4.862 -4.173	-6.565% -5.635%	91.621 94.151	-19.879 -17.349	-17.829% -15.559%
gaussian_noise shot noise	4	59.82	-5.92 -6.47	-8.930% -9.760%	52.21 51.701	-4.61 -5.119	-8.113% -9.008%	69.887	-4.173 -5.609	-5.635% -7.573%	94.151 91.7	-17.349 -19.8	-15.559% -17.758%
speckle_noise	4	61.48	-4.81	-7.256%	53.109	-3.711	-6.532%	69.786	-4.274	-5.771%	97.774	-13.726	-12.311%
zoom_blur	4	51.58	-14.71	-22.190%	45.961	-10.859	-19.111%	59.409	-14.651	-19.783%	46.098	-65.402	-58.656%
defocus_blur motion_blur	4	60.91 59.37	-5.38 -6.92	-8.116% -10.439%	52.759 51.59	-4.061 -5.23	-7.148% -9.204%	69.298 68.423	-4.762 -5.637	-6.430% -7.612%	93.946 87.289	-17.554 -24.211	-15.744% -21.713%
glass_blur	4	56.9	-9.39	-14.165%	49.73	-7.09	-12.479%	67.475	-6.585	-8.891%	78.169	-33.331	-29.893%
gaussian_blur	4	61.27	-5.02	-7.573%	52.822	-3.998	-7.036%	70.044	-4.016	-5.422%	96.796	-14.704	-13.188%
jpeg_compression contrast	4	63.91 58.57	-2.38 -7.72	-3.590% -11.646%	54.19 51.598	-2.63 -5.222	-4.629% -9.190%	72.729 68.092	-1.331 -5.968	-1.798% -8.058%	104.728 89.528	-6.772 -21.972	-6.073% -19.706%
elastic_transform	4	61.91	-4.38	-6.607%	52.361	-4.459	-7.847%	71.25	-2.81	-3.794%	96.929	-14.571	-13.068%
pixelate	4	55.66	-10.63	-16.036%	49.873	-6.947	-12.227%	64.317	-9.743	-13.155%	74.119	-37.381	-33.525%
snow frost	4	53.52 55.8	-12.77 -10.49	-19.264% -15.824%	47.217 49.165	-9.603 -7.655	-16.900% -13.472%	63.715 67.59	-10.345 -6.47	-13.969% -8.736%	64.304 76.626	-47.196 -34.874	-42.328% -31.277%
fog	4	60.8	-5.49	-8.282%	52.783	-1.033 -4.037	-13.472% -7.106%	71.781	-0.47	-8.736% -3.077%	97.573	-34.874	-31.277%
brightness	4	63.48	-2.81	-4.239%	54.452	-2.368	-4.167%	71.939	-2.121	-2.864%	106.198	-5.302	-4.755%
spatter saturate	4	58.61 62.25	-7.68 -4.04	-11.585% -6.094%	50.747 52.56	-6.073 -4.26	-10.688% -7.497%	68.839 71.681	-5.221 -2.379	-7.050% -3.213%	84.966 102.472	-26.534 -9.028	-23.798% -8.097%
corruption	severity		VQ.	A		GQA	A		NLV	R		Captio	n
impulse_noise	5	Acc 55.83	Decrease -10.46	Decrease Ratio	Acc 50.08	Decrease -6.74	Decrease Ratio	Acc 66.829	Decrease -7.231	Decrease Ratio	79.113	Decrease -32.387	-29.047%
gaussian_noise	5	56.08	-10.21	-15.402%	49.849	-6.971	-12.269%	66.844	-7.216	-9.744%	79.032	-32.468	-29.119%
shot_noise	5	57.13	-9.16	-13.818%	50.405	-6.415	-11.289%	66.815	-7.245	-9.783%	82.265	-29.235	-26.220%
speckle_noise zoom_blur	5 5	59.83 49.35	-6.46 -16.94	-9.745% -25.554%	51.59 44.665	-5.23 -12.155	-9.204% -21.392%	67.963 57.586	-6.097 -16.474	-8.232% -22.244%	91.788 37.158	-19.712 -74.342	-17.679% -66.675%
defocus_blur	5	58.93	-7.36	-11.103%	51.733	-5.087	-8.953%	67.805	-6.255	-8.445%	85.321	-26.179	-23.479%
motion_blur	5	57.06	-9.23	-13.924%	50.557	-6.263	-11.023%	67.059	-7.001	-9.453%	75.387	-36.113	-32.389%
glass_blur	5	53.91	-12.38	-18.676%	47.408	-9.412	-16.564%	65.968	-8.092	-10.926%	65.115	-46.385	-41.600%
gaussian_blur jpeg_compression	5 5	57.92 62.0	-8.37 -4.29	-12.626% -6.472%	50.755 53.331	-6.065 -3.489	-10.674% -6.140%	66.198 71.107	-7.862 -2.953	-10.616% -3.988%	81.871 98.817	-29.629 -12.683	-26.573% -11.375%
contrast	5	50.96	-15.33	-23.126%	47.567	-9.253	-16.284%	61.303	-12.757	-17.225%	61.11	-50.39	-45.193%
elastic_transform	5	55.85	-10.44	-15.749%	47.973	-8.847	-15.571%	67.073	-6.987	-9.434%	69.818	-41.682	-37.383%
pixelate snow	5 5	53.08 54.57	-13.21 -11.72	-19.928% -17.680%	47.194 47.798	-9.626 -9.022	-16.942% -15.879%	61.432 64.389	-12.628 -9.671	-17.050% -13.058%	62.23 71.716	-49.27 -39.784	-44.188% -35.680%
frost	5	54.33	-11.72 -11.96	-17.080% -18.042%	48.394	-9.022 -8.426	-13.879% -14.829%	66.14	-9.671 -7.92	-13.038%	70.632	-40.868	-35.680%
fog	5	57.32	-8.97	-13.531%	50.262	-6.558	-11.541%	68.911	-5.149	-6.953%	84.015	-27.485	-24.650%
	5	62.33	-3.96	-5.974%	53.53	-3.29	-5.790%	70.36	-3.7	-4.996%	102.756	-8.744	-7.842%
brightness	3										72 272		
brightness spatter saturate	5	55.74 59.76	-10.55 -6.53	-15.915% -9.851%	49.809 51.542	-7.011 -5.278	-12.339% -9.288%	66.456 67.131	-7.604 -6.929	-10.267% -9.356%	73.373 97.049	-38.127 -14.451	-34.195% -12.960%

Table 22: Performance and decrease ratio of Hyperformer on CLIP-T5 against image corruptions given severity 1 to 5.

corruption	severity	10 5.	VQ.			GQ/			NLV		CIP.	Captio	
		Acc	Decrease -1.51	Decrease Ratio	Acc 52.878	Decrease -1.772	Decrease Ratio	Acc 69.973	Decrease	Decrease Ratio	CIDer 105.964	Decrease	Decrease Ratio
impulse_noise gaussian_noise	1 1	63.67 64.37	-0.81	-1.243%	52.83	-1.82	-3.330%	70.647	-0.587 0.087	0.124%	108.276	-4.685 -2.373	-2.145%
shot_noise	1	64.2	-0.98	-1.504%	53.323	-1.327	-2.428%	70.274	-0.286	-0.405%	109.259	-1.39	-1.257%
speckle_noise zoom_blur	1 1	64.18 59.01	-1.0 -6.17	-1.534% -9.466%	53.117 50.564	-1.533 -4.086	-2.806% -7.476%	70.102 56.882	-0.458 -13.678	-0.649% -19.384%	109.629 85.215	-1.02 -25.434	-0.922% -22.986%
defocus_blur	1	64.12	-1.06	-1.626%	53.546	-1.104	-2.020%	70.992	0.432	0.612%	107.981	-2.668	-2.411%
motion_blur glass_blur	1 1	63.9 64.35	-1.28 -0.83	-1.964% -1.273%	53.291 53.212	-1.359 -1.438	-2.486% -2.631%	70.26 70.705	-0.3 0.145	-0.425% 0.205%	107.244 108.233	-3.405 -2.416	-3.077% -2.183%
gaussian_blur	i	64.95	-0.23	-0.353%	53.959	-0.691	-1.264%	71.135	0.575	0.815%	109.927	-0.722	-0.653%
jpeg_compression	1 1	64.57	-0.61 -1.46	-0.936%	53.22	-1.43	-2.617%	71.021 69.93	0.461	0.653%	109.879 109.584	-0.77	-0.696%
contrast elastic_transform	1	63.72 64.48	-0.7	-2.240% -1.074%	53.474 53.554	-1.176 -1.096	-2.151% -2.006%	70.346	-0.63 -0.214	-0.893% -0.303%	109.384	-1.065 -1.374	-0.963% -1.242%
pixelate	1	62.07	-3.11	-4.771%	52.91	-1.74	-3.184%	69.011	-1.549	-2.195%	100.738	-9.911	-8.958%
snow frost	1 1	61.08 62.19	-4.1 -2.99	-6.290% -4.587%	50.962 51.94	-3.688 -2.71	-6.748% -4.959%	68.911 69.427	-1.649 -1.133	-2.338% -1.605%	98.052 100.993	-12.597 -9.656	-11.385% -8.727%
fog	1	63.47	-1.71	-2.624%	53.665	-0.985	-1.802%	69.973	-0.587	-0.832%	108.614	-2.035	-1.839%
brightness spatter	1 1	65.04 64.82	-0.14 -0.36	-0.215% -0.552%	53.49 53.768	-1.16 -0.882	-2.122% -1.613%	71.15 70.992	0.59 0.432	0.836% 0.612%	110.949 110.218	0.3 -0.431	0.271% -0.389%
saturate	i	62.58	-2.6	-3.989%	52.663	-1.987	-3.635%	69.312	-1.248	-1.768%	107.263	-3.386	-3.060%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	2	62.92	-2.26	-3.467%	52.123	-2.527	-4.624%	69.6	-0.96	-1.361%	103.856	-6.793	-6.139%
gaussian_noise	2 2	63.58	-1.6	-2.455%	52.377	-2.273	-4.159%	69.958	-0.602	-0.853% -1.422%	107.272	-3.377	-3.052%
shot_noise speckle_noise	2	63.5 63.89	-1.68 -1.29	-2.577% -1.979%	52.91 52.934	-1.74 -1.716	-3.184% -3.141%	69.556 69.858	-1.004 -0.702	-1.422% -0.995%	106.947 108.21	-3.702 -2.439	-3.346% -2.205%
zoom_blur	2	56.0	-9.18	-14.084%	48.807	-5.843	-10.691%	61.519	-9.041	-12.814%	72.413	-38.236	-34.556%
defocus_blur motion_blur	2 2	63.73 63.05	-1.45 -2.13	-2.225% -3.268%	53.125 52.862	-1.525 -1.788	-2.791% -3.271%	70.317 70.446	-0.243 -0.114	-0.344% -0.161%	106.855 104.409	-3.794 -6.24	-3.429% -5.639%
glass_blur	2	63.27	-1.91	-2.930%	52.457	-2.193	-4.013%	69.93	-0.63	-0.893%	104.476	-6.173	-5.579%
gaussian_blur	2	63.97	-1.21	-1.856%	53.117	-1.533	-2.806%	70.418	-0.142	-0.202%	107.399	-3.25	-2.937%
jpeg_compression contrast	2 2	64.3 63.0	-0.88 -2.18	-1.350% -3.345%	52.981 53.14	-1.669 -1.51	-3.053% -2.762%	70.848 69.341	0.288 -1.219	0.409% -1.727%	109.921 107.914	-0.728 -2.735	-0.658% -2.472%
elastic_transform	2	61.76	-3.42	-5.247%	51.996	-2.654	-4.857%	66.614	-3.946	-5.592%	95.92	-14.729	-13.311%
pixelate	2	61.36	-3.82	-5.861%	52.353	-2.297	-4.203%	65.738	-4.822	-6.833%	98.244	-12.405	-11.211%
snow frost	2 2	58.33 58.86	-6.85 -6.32	-10.509% -9.696%	49.094 49.674	-5.556 -4.976	-10.167% -9.105%	66.37 67.274	-4.19 -3.286	-5.938% -4.657%	86.423 89.41	-24.226 -21.239	-21.895% -19.195%
fog	2	62.72	-2.46	-3.774%	53.005	-1.645	-3.010%	66.973	-3.587	-5.084%	106.936	-3.713	-3.356%
brightness	2 2	64.53 62.05	-0.65 -3.13	-0.997% -4.802%	53.339 51.805	-1.311 -2.845	-2.399% -5.206%	70.346 69.14	-0.214 -1.42	-0.303%	110.292 100.694	-0.357 -9.955	-0.323% -8.997%
spatter saturate	2	62.05	-3.13 -5.01	-4.802% -7.686%	51.805	-2.845 -2.806	-5.206% -5.134%	66.93	-3.63	-2.012% -5.145%	100.694	-9.955 -8.21	-8.997% -7.419%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	3	61.92	-3.26	-5.002%	52.115	-2.535	-4.639%	68.882	-1.678	-2.378%	101.262	-9.387	-8.484%
gaussian_noise	3	61.94	-3.24	-4.971%	52.011	-2.639	-4.828%	69.054	-1.506	-2.134% -2.907%	102.599	-8.05	-7.275%
shot_noise speckle_noise	3	62.02 62.41	-3.16 -2.77	-4.848% -4.250%	52.043 52.274	-2.607 -2.376	-4.770% -4.348%	68.509 68.322	-2.051 -2.238	-2.907% -3.172%	102.533 102.701	-8.116 -7.948	-7.335% -7.183%
zoom_blur	3	53.73	-11.45	-17.567%	46.748	-7.902	-14.459%	59.351	-11.209	-15.885%	59.185	-51.464	-46.511%
defocus_blur motion_blur	3	62.0 61.81	-3.18 -3.37	-4.879% -5.170%	52.019 52.306	-2.631 -2.344	-4.814% -4.290%	69.097 69.212	-1.463 -1.348	-2.073% -1.910%	100.879 98.188	-9.77 -12.461	-8.829% -11.262%
glass_blur	3	58.58	-6.6	-10.126%	49.587	-5.063	-9.265%	66.801	-3.759	-5.328%	85.895	-24.754	-22.372%
gaussian_blur	3	62.6	-2.58	-3.958%	52.488	-2.162	-3.955%	69.183	-1.377	-1.951%	103.215	-7.434	-6.719%
jpeg_compression contrast	3	64.12 61.76	-1.06 -3.42	-1.626% -5.247%	53.26 52.671	-1.39 -1.979	-2.544% -3.621%	70.418 68.681	-0.142 -1.879	-0.202% -2.663%	108.92 103.574	-1.729 -7.075	-1.563% -6.394%
elastic_transform	3	63.36	-1.82	-2.792%	52.735	-1.915	-3.504%	70.69	0.13	0.185%	104.436	-6.213	-5.615%
pixelate snow	3	59.16 56.46	-6.02 -8.72	-9.236% -13.378%	51.264 48.06	-3.386 -6.59	-6.196% -12.058%	64.877 65.222	-5.683 -5.338	-8.054% -7.566%	88.505 78.153	-22.144 -32.496	-20.013% -29.369%
frost	3	56.49	-8.69	-13.332%	48.529	-6.121	-12.038%	65.035	-5.525	-7.830%	79.936	-32.490	-29.369% -27.757%
fog	3	61.77	-3.41	-5.232%	52.552	-2.098	-3.839%	69.427	-1.133	-1.605%	102.982	-7.667	-6.929%
brightness spatter	3	63.82 60.76	-1.36 -4.42	-2.087% -6.781%	53.069 51.208	-1.581 -3.442	-2.893% -6.297%	69.6 69.083	-0.96 -1.477	-1.361% -2.094%	108.212 94.666	-2.437 -15.983	-2.203% -14.445%
saturate	3	64.6	-0.58	-0.890%	53.252	-1.398	-2.559%	71.164	0.604	0.856%	110.3	-0.349	-0.316%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	4	59.55	-5.63	-8.638%	51.224	-3.426	-6.268%	67.403	-3.157	-4.474%	92.072	-18.577	-16.789%
gaussian_noise shot noise	4	59.85 59.33	-5.33 -5.85	-8.177% -8.975%	51.415 51.367	-3.235 -3.283	-5.919% -6.006%	67.533 66.643	-3.027 -3.917	-4.290% -5.552%	93.879 93.22	-16.77 -17.429	-15.156% -15.752%
speckle_noise	4	60.95	-4.23	-6.490%	51.813	-2.837	-5.192%	67.504	-3.056	-4.331%	98.685	-11.964	-10.812%
zoom_blur	4	51.84	-13.34	-20.466%	45.516	-9.134	-16.714%	57.385	-13.175	-18.672%	49.973	-60.676	-54.837%
defocus_blur motion_blur	4	60.25 59.15	-4.93 -6.03	-7.564% -9.251%	51.193 51.336	-3.457 -3.314	-6.327% -6.065%	67.604 67.116	-2.956 -3.444	-4.189% -4.880%	93.014 87.102	-17.635 -23.547	-15.938% -21.281%
glass_blur	4	56.62	-8.56	-13.133%	48.434	-6.216	-11.375%	65.896	-4.664	-6.609%	79.016	-31.633	-28.589%
gaussian_blur	4	60.63	-4.55 2.0	-6.981%	51.487	-3.163	-5.788%	68.107	-2.453	-3.477% -0.995%	96.555	-14.094 5.385	-12.738% 4.866%
jpeg_compression contrast	4	63.18 57.97	-2.0 -7.21	-3.068% -11.062%	52.322 50.413	-2.328 -4.237	-4.261% -7.752%	69.858 65.021	-0.702 -5.539	-0.995% -7.850%	105.264 91.237	-5.385 -19.412	-4.866% -17.543%
elastic_transform	4	61.35	-3.83	-5.876%	51.026	-3.624	-6.632%	69.614	-0.946	-1.341%	96.358	-14.291	-12.916%
pixelate	4	55.42	-9.76 -11.92	-14.974% -18.288%	49.03	-5.62 -8.442	-10.284% -15.448%	62.179	-8.381 -8.065	-11.878% -11.431%	73.902 63.875	-36.747 -46.774	-33.211% -42.272%
snow frost	4	53.26 55.76	-11.92 -9.42	-18.288% -14.452%	46.208 48.362	-8.442 -6.288	-15.448% -11.506%	62.495 65.25	-8.065 -5.31	-11.431% -7.525%	63.875 76.488	-46.774 -34.161	-42.272% -30.873%
fog	4	60.5	-4.68	-7.180%	51.606	-3.044	-5.570%	68.824	-1.736	-2.460%	97.94	-12.709	-11.486%
brightness	4	63.16 58.4	-2.02 -6.78	-3.099% -10.402%	52.973 49.046	-1.677 -5.604	-3.068% -10.254%	68.738 66.901	-1.822 -3.659	-2.582% -5.186%	106.695 86.086	-3.954 -24.563	-3.574% -22.199%
spatter saturate	4	61.91	-6.78 -3.27	-10.402% -5.017%	52.234	-5.604 -2.416	-10.254% -4.421%	69.528	-3.659	-5.186% -1.463%	103.832	-24.563 -6.817	-22.199% -6.161%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	5	55.6	-9.58	-14.698%	49.539	-5.111	-9.352%	65.222	-5.338	-7.566%	79.968	-30.681	-27.728%
gaussian_noise shot noise	5 5	55.48 56.43	-9.7 -8.75	-14.882% -13.424%	49.292 49.491	-5.358 -5.159	-9.803% -9.440%	65.05 64.863	-5.51 -5.697	-7.810% -8.074%	79.361 83.399	-31.288 -27.25	-28.277% -24.627%
snot_noise speckle_noise	5	59.19	-5.99	-9.190%	50.787	-3.863	-7.068%	65.997	-4.563	-6.467%	92.835	-17.814	-16.099%
zoom_blur	5	49.67	-15.51	-23.796%	44.101	-10.549	-19.303%	55.634	-14.926	-21.154%	41.287	-69.362	-62.687%
defocus_blur motion_blur	5 5	58.37 56.9	-6.81 -8.28	-10.448% -12.703%	49.936 50.207	-4.714 -4.443	-8.625% -8.130%	65.925 65.265	-4.635 -5.295	-6.569% -7.505%	85.348 76.428	-25.301 -34.221	-22.866% -30.927%
glass_blur	5	53.95	-8.28 -11.23	-12.703% -17.229%	46.247	-8.403	-8.130% -15.375%	63.987	-5.295 -6.573	-7.305% -9.315%	65.662	-34.221 -44.987	-40.658%
gaussian_blur	5	57.18	-8.0	-12.274%	49.618	-5.032	-9.207%	65.136	-5.424	-7.688%	82.076	-28.573	-25.823%
jpeg_compression contrast	5 5	61.2 50.72	-3.98 -14.46	-6.106% -22.185%	52.282 46.868	-2.368 -7.782	-4.333% -14.241%	69.241 59.567	-1.319 -10.993	-1.870% -15.580%	97.952 61.923	-12.697 -48.726	-11.475% -44.036%
elastic_transform	5	55.47	-14.46 -9.71	-22.185% -14.897%	46.868	-7.782 -7.655	-14.241% -14.008%	65.911	-4.649	-15.580% -6.589%	70.079	-48.726 -40.57	-44.036% -36.665%
pixelate	5	52.9	-12.28	-18.840%	46.875	-7.775	-14.226%	58.418	-12.142	-17.208%	62.167	-48.482	-43.816%
snow frost	5 5	54.16 54.22	-11.02 -10.96	-16.907% -16.815%	47.178 47.758	-7.472 -6.892	-13.673% -12.611%	63.026 63.413	-7.534 -7.147	-10.678% -10.129%	70.651 71.889	-39.998 -38.76	-36.148% -35.029%
frost fog	5	54.22 57.1	-10.96 -8.08	-16.815% -12.396%	47.758	-6.892 -5.922	-12.611% -10.836%	66.083	-7.147 -4.477	-10.129% -6.345%	71.889 85.099	-38.76 -25.55	-35.029% -23.091%
brightness	5	61.93	-3.25	-4.986%	52.576	-2.074	-3.795%	67.891	-2.669	-3.782%	104.118	-6.531	-5.903%
spatter saturate	5 5	55.58 59.21	-9.6 -5.97	-14.728% -9.159%	48.386 50.668	-6.264 -3.982	-11.462% -7.287%	64.719 65.566	-5.841 -4.994	-8.278% -7.077%	74.226 97.323	-36.423 -13.326	-32.917% -12.043%
satulate	J	27.41	-5.71	-2.137/0	20.000	-5.704	-1.201/0	05.500	-7.774	-1.011/0	11.343	-10.020	-12.043/0

Table 23: Performance and decrease ratio of Multiple Adapters on CLIP-T5 against image corruptions given severity 1 to 5.

corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	1	64.5	-1.65	-2.494%	53.18	-2.48	-4.455%	51.801	-0.139	-0.267%	106.036	-6.113	-5.450%
gaussian_noise	1	65.19	-0.96	-1.451% -1.663%	53.315	-2.345 -1.884	-4.213% -3.384%	51.529 51.414	-0.411	-0.792% -1.013%	108.756 108.849	-3.393 -3.3	-3.026% -2.943%
shot_noise speckle_noise	1 1	65.05 65.12	-1.1 -1.03	-1.663% -1.557%	53.776 53.458	-1.884	-3.384% -3.955%	51.414	-0.526 0.048	-1.013% 0.092%	108.849	-3.3 -3.084	-2.943% -2.750%
zoom_blur	1	59.62	-6.53	-9.872%	49.857	-5.803	-10.426%	49.792	-2.148	-4.136%	82.202	-29.947	-26.703%
defocus_blur motion_blur	1	65.27 64.86	-0.88 -1.29	-1.330% -1.950%	53.514 53.22	-2.146 -2.44	-3.855% -4.384%	51.342 51.399	-0.598 -0.541	-1.151% -1.041%	108.326 107.751	-3.823 -4.398	-3.409% -3.922%
glass_blur	i	65.28	-0.87	-1.315%	53.816	-1.844	-3.313%	51.873	-0.067	-0.129%	108.701	-3.448	-3.074%
gaussian_blur	1	65.86	-0.29	-0.438%	54.055	-1.605	-2.884%	51.328	-0.612	-1.179%	110.904	-1.245	-1.111%
jpeg_compression contrast	1 1	65.69 64.86	-0.46 -1.29	-0.695% -1.950%	53.729 53.657	-1.931 -2.003	-3.470% -3.598%	52.131 51.313	0.191 -0.627	0.369% -1.207%	109.975 109.128	-2.174 -3.021	-1.938% -2.694%
elastic_transform	1	65.38	-0.77	-1.164%	53.721	-1.939	-3.484%	52.175	0.235	0.452%	109.828	-2.321	-2.070%
pixelate	1 1	62.76 61.59	-3.39 -4.56	-5.125% -6.893%	52.663 50.564	-2.997 -5.096	-5.384% -9.155%	51.299 51.457	-0.641 -0.483	-1.234% -0.930%	99.602 96.957	-12.547 -15.192	-11.187% -13.547%
snow frost	1	62.46	-3.69	-5.578%	51.781	-3.879	-6.969%	51.342	-0.483	-1.151%	100.831	-13.192	-10.092%
fog	1	64.35	-1.8	-2.721%	53.506	-2.154	-3.870%	51.012	-0.928	-1.787%	107.446	-4.703	-4.194%
brightness spatter	1 1	65.85 65.64	-0.3 -0.51	-0.454% -0.771%	53.641 53.57	-2.019 -2.09	-3.627% -3.755%	52.203 52.347	0.263 0.407	0.507% 0.783%	111.572 110.657	-0.577 -1.492	-0.515% -1.331%
saturate	i	63.49	-2.66	-4.021%	52.695	-2.965	-5.327%	51.701	-0.239	-0.460%	107.388	-4.761	-4.245%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	2	63.51	-2.64	-3.991%	52.759	-2.901	-5.212%	51.902	-0.038	-0.074%	103.427	-8.722	-7.777%
gaussian_noise	2	64.45	-1.7	-2.570%	53.077	-2.583	-4.641%	51.773	-0.167	-0.322%	107.49	-4.659	-4.155%
shot_noise	2 2	64.27 64.6	-1.88 -1.55	-2.842% -2.343%	53.244 53.506	-2.416 -2.154	-4.341% -3.870%	51.328 51.6	-0.612 -0.34	-1.179% -0.654%	106.21 108.274	-5.939 -3.875	-5.296% -3.455%
speckle_noise zoom_blur	2	56.66	-1.33 -9.49	-14.346%	48.06	-2.134	-13.654%	50.194	-0.34	-3.362%	66.462	-3.673 -45.687	-40.738%
defocus_blur	2	64.48	-1.67	-2.525%	52.942	-2.718	-4.884%	51.457	-0.483	-0.930%	106.226	-5.923	-5.281%
motion_blur glass_blur	2 2	63.68 64.13	-2.47 -2.02	-3.734% -3.054%	52.536 53.212	-3.124 -2.448	-5.612% -4.398%	52.16 51.801	0.22 -0.139	0.424% -0.267%	104.258 104.629	-7.891 -7.52	-7.037% -6.706%
gaussian_blur	2	64.83	-1.32	-1.995%	53.125	-2.535	-4.555%	51.342	-0.598	-1.151%	107.206	-4.943	-4.408%
jpeg_compression	2	65.49	-0.66	-0.998%	53.872	-1.788	-3.213%	53.021	1.081	2.082%	109.446	-2.703	-2.410%
contrast elastic_transform	2 2	63.95 62.82	-2.2 -3.33	-3.326% -5.034%	53.371 51.678	-2.289 -3.982	-4.113% -7.155%	50.696 51.084	-1.244 -0.856	-2.395% -1.649%	106.845 94.903	-5.304 -17.246	-4.729% -15.378%
pixelate	2	62.26	-3.89	-5.881%	52.337	-3.323	-5.969%	51.5	-0.44	-0.847%	97.551	-14.598	-13.017%
snow	2	58.42	-7.73	-11.686%	48.911	-6.749	-12.126%	50.71	-1.23	-2.367%	84.361	-27.788	-24.778%
frost fog	2 2	59.3 63.61	-6.85 -2.54	-10.355% -3.840%	49.666 53.244	-5.994 -2.416	-10.769% -4.341%	51.213 50.423	-0.727 -1.517	-1.400% -2.920%	87.72 106.212	-24.429 -5.937	-21.783% -5.294%
brightness	2	65.43	-0.72	-1.088%	53.482	-2.178	-3.913%	52.619	0.679	1.308%	110.536	-1.613	-1.438%
spatter saturate	2 2	62.4 60.8	-3.75 -5.35	-5.669% -8.088%	52.306 52.043	-3.354 -3.617	-6.027% -6.498%	52.634 50.782	0.694 -1.158	1.336% -2.229%	99.537 102.179	-12.612 -9.97	-11.246% -8.890%
corruption	severity		VQ.			GQA			NLV			Captio	
impulse_noise	3	Acc 62.57	Decrease -3.58	Decrease Ratio	Acc 53.037	Decrease -2.623	Decrease Ratio	Acc 51.342	Decrease -0.598	Decrease Ratio	CIDer 100.779	Decrease	-10.138%
gaussian_noise	3	62.63	-3.52	-5.321%	52.767	-2.893	-5.198%	51.098	-0.842	-1.621%	101.76	-10.389	-9.264%
shot_noise	3	62.71	-3.44	-5.200%	53.236	-2.424	-4.355%	50.667	-1.273	-2.450%	101.794	-10.355	-9.233%
speckle_noise zoom_blur	3	62.7 53.95	-3.45 -12.2	-5.215% -18.443%	52.981 46.931	-2.679 -8.729	-4.812% -15.682%	50.596 50.179	-1.344 -1.761	-2.588% -3.390%	102.21 51.885	-9.939 -60.264	-8.863% -53.736%
defocus_blur	3	62.69	-3.46	-5.231%	52.139	-3.521	-6.327%	51.414	-0.526	-1.013%	100.687	-11.462	-10.220%
motion_blur	3	62.11	-4.04	-6.107%	52.226	-3.434	-6.169%	51.069	-0.871	-1.676%	98.529	-13.62	-12.145%
glass_blur gaussian_blur	3	58.93 63.51	-7.22 -2.64	-10.915% -3.991%	49.634 52.274	-6.026 -3.386	-10.826% -6.084%	50.682 51.084	-1.258 -0.856	-2.422% -1.649%	84.772 101.916	-27.377 -10.233	-24.412% -9.125%
jpeg_compression	3	65.16	-0.99	-1.497%	53.848	-1.812	-3.256%	52.663	0.723	1.391%	109.852	-2.297	-2.048%
contrast elastic transform	3	62.71 64.32	-3.44 -1.83	-5.200% -2.766%	52.568 52.878	-3.092 -2.782	-5.555% -4.998%	50.208 51.514	-1.732 -0.426	-3.334% -0.820%	103.41 104.531	-8.739 -7.618	-7.792% -6.793%
pixelate	3	60.13	-6.02	-9.101%	51.526	-4.134	-7.426%	50.782	-1.158	-2.229%	87.638	-24.511	-21.855%
snow	3	56.64	-9.51	-14.376%	47.941	-7.719	-13.868%	50.022	-1.918	-3.694%	76.498	-35.651	-31.789%
frost fog	3	57.14 62.53	-9.01 -3.62	-13.621% -5.472%	48.625 52.862	-7.035 -2.798	-12.640% -5.027%	51.256 50.926	-0.684 -1.014	-1.317% -1.953%	76.995 102.556	-35.154 -9.593	-31.346% -8.554%
brightness	3	64.65	-1.5	-2.268%	53.395	-2.265	-4.070%	52.505	0.565	1.087%	108.24	-3.909	-3.486%
spatter saturate	3	61.0 65.26	-5.15 -0.89	-7.785% -1.345%	51.256 53.156	-4.404 -2.504	-7.912% -4.498%	52.548 52.878	0.608 0.938	1.170% 1.806%	93.794 110.132	-18.355 -2.017	-16.366% -1.799%
corruption	severity		VQ.	A		GQA	1		NLV	R		Captio	n
impulse noise	4	Acc 59.82	Decrease -6.33	-9.569%	Acc 51.757	Decrease -3.903	-7.012%	Acc 50.553	Decrease -1.387	Decrease Ratio	91.794	-20.355	Decrease Ratio
gaussian_noise	4	60.12	-6.03	-9.116%	51.455	-4.205	-7.555%	51.17	-0.77	-1.483%	93.233	-18.916	-16.867%
shot_noise	4	59.75	-6.4	-9.675%	51.193	-4.467	-8.026%	50.825	-1.115	-2.146%	90.816	-21.333	-19.022%
speckle_noise zoom_blur	4	61.49 52.17	-4.66 -13.98	-7.045% -21.134%	52.369 45.254	-3.291 -10.406	-5.912% -18.696%	50.61 49.892	-1.33 -2.048	-2.561% -3.942%	98.103 42.244	-14.046 -69.905	-12.524% -62.333%
defocus_blur	4	60.84	-5.31	-8.027%	51.034	-4.626	-8.312%	50.754	-1.186	-2.284%	93.41	-18.739	-16.709%
motion_blur	4	59.58 56.72	-6.57 -9.43	-9.932% -14.255%	50.294 48.434	-5.366 -7.226	-9.640% -12.983%	50.452 50.481	-1.488 -1.459	-2.865% -2.809%	85.262 75.714	-26.887 -36.435	-23.975% -32.488%
glass_blur gaussian_blur	4	61.6	-9.43 -4.55	-14.255% -6.878%	48.434 51.288	-1.226 -4.372	-12.983% -7.855%	50.481	-1.459 -1.186	-2.809% -2.284%	96.23	-36.435 -15.919	-32.488% -14.194%
jpeg_compression	4	64.15	-2.0	-3.023%	53.132	-2.528	-4.541%	52.332	0.392	0.756%	104.967	-7.182	-6.404%
contrast elastic_transform	4	58.4 62.01	-7.75 -4.14	-11.716% -6.259%	50.668 51.344	-4.992 -4.316	-8.969% -7.755%	50.179 51.285	-1.761 -0.655	-3.390% -1.262%	88.829 95.188	-23.32 -16.961	-20.794% -15.124%
pixelate	4	55.87	-10.28	-15.540%	48.72	-6.94	-12.469%	50.309	-1.631	-3.141%	72.813	-39.336	-35.075%
snow	4	53.57	-12.58	-19.017%	46.049	-9.611	-17.268%	49.878	-2.062	-3.970%	61.826	-50.323	-44.871%
frost fog	4	56.21 60.89	-9.94 -5.26	-15.026% -7.952%	47.925 51.352	-7.735 -4.308	-13.897% -7.741%	51.543 51.141	-0.397 -0.799	-0.764% -1.538%	75.086 96.996	-37.063 -15.153	-33.048% -13.511%
brightness	4	63.58	-2.57	-3.885%	53.252	-2.408	-4.327%	52.849	0.909	1.750%	105.744	-6.405	-5.711%
spatter saturate	4	58.63 62.69	-7.52 -3.46	-11.368% -5.231%	49.674 51.932	-5.986 -3.728	-10.755% -6.698%	52.261 51.844	0.321 -0.096	0.617% -0.184%	83.306 103.63	-28.843 -8.519	-25.718% -7.596%
		02.07	VQ.		31.732	-3.726 GQA		31.044	NLV		103.03	Captio	
corruption impulse_noise	severity 5	Acc 56.02	Decrease -10.13	Decrease Ratio	Acc 49.412	Decrease -6.248	Decrease Ratio	Acc 50.007	Decrease -1.933	Decrease Ratio	79.067	Decrease -33.082	Decrease Ratio
gaussian_noise	5	56.02	-10.13	-15.314%	49.412	-6.153	-11.054%	50.409	-1.531	-2.947%	78.336	-33.813	-30.150%
shot noise	5	57.09	-9.06	-13.696%	49.905	-5.755	-10.340%	49.806	-2.134	-4.108%	82.044	-30.105	-26.844%
speckle_noise zoom_blur	5 5	59.79 50.23	-6.36 -15.92	-9.615% -24.067%	51.511 44.188	-4.149 -11.472	-7.455% -20.610%	50.538 49.835	-1.402 -2.105	-2.699% -4.053%	91.293 33.035	-20.856 -79.114	-18.597% -70.544%
defocus_blur	5	58.89	-13.92 -7.26	-24.067% -10.975%	50.04	-5.62	-10.097%	50.553	-2.103	-4.053% -2.671%	83.47	-79.114	-70.544% -25.572%
motion_blur	5	57.25	-8.9	-13.454%	48.903	-6.757	-12.140%	50.395	-1.545	-2.975%	73.385	-38.764	-34.565%
glass_blur gaussian_blur	5 5	54.04 57.69	-12.11 -8.46	-18.307% -12.789%	46.478 49.316	-9.182 -6.344	-16.497% -11.397%	50.237 50.022	-1.703 -1.918	-3.279% -3.694%	63.347 81.731	-48.802 -30.418	-43.515% -27.123%
jpeg_compression	5	61.83	-8.46 -4.32	-12.789% -6.531%	52.131	-3.529	-11.397% -6.341%	53.064	1.124	-3.694% 2.165%	98.845	-30.418	-27.123% -11.862%
contrast	5	51.06	-15.09	-22.812%	46.375	-9.285	-16.682%	49.333	-2.607	-5.020%	59.487	-52.662	-46.957%
elastic_transform pixelate	5 5	55.8 53.45	-10.35 -12.7	-15.646% -19.199%	46.852 46.748	-8.808 -8.912	-15.825% -16.011%	50.696 49.519	-1.244 -2.421	-2.395% -4.661%	67.879 59.806	-44.27 -52.343	-39.475% -46.673%
snow	5	54.86	-11.29	-17.067%	47.122	-8.538	-15.340%	50.251	-1.689	-3.251%	69.469	-42.68	-38.057%
frost	5	54.89	-11.26	-17.022%	47.925	-7.735	-13.897%	50.452	-1.488	-2.865%	68.513	-43.636	-38.909%
fog brightness	5 5	57.42 62.4	-8.73 -3.75	-13.197% -5.669%	49.141 52.353	-6.519 -3.307	-11.712% -5.941%	49.835 52.591	-2.105 0.651	-4.053% 1.253%	82.314 103.015	-29.835 -9.134	-26.603% -8.144%
spatter	5	55.55	-10.6	-16.024%	48.489	-7.171	-12.883%	51.414	-0.526	-1.013%	70.26	-41.889	-37.351%
saturate	5	59.75	-6.4	-9.675%	51.073	-4.587	-8.241%	52.117	-0.177	-0.341%	96.107	-16.042	-14.304%

Table 24: Performance and decrease ratio of Multiple Compacters on CLIP-T5 against image corruptions given severity 1 to 5.

corruption		11 30	VCIITY .			GQ.	A		NLV	R		Captio	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	1	63.83 64.54	-1.67 -0.96	-2.550% -1.466%	52.027 52.552	-2.653 -2.128	-4.851% -3.892%	52.131 52.591	-0.499 -0.039	-0.947% -0.075%	106.519 109.611	-6.681 -3.589	-5.902% -3.171%
shot_noise	1	64.48	-1.02	-1.557%	52.441	-2.128	-4.095%	52.318	-0.312	-0.593%	109.51	-3.69	-3.259%
speckle_noise	1 1	64.25	-1.25	-1.908% -10.122%	52.441	-2.239 -4.95	-4.095% -9.053%	52.002 49.347	-0.628	-1.193% -6.238%	110.284	-2.916	-2.576%
zoom_blur defocus_blur	1	58.87 64.57	-6.63 -0.93	-1.420%	49.73 53.101	-1.579	-2.888%	51.988	-3.283 -0.642	-1.220%	84.89 109.512	-28.31 -3.688	-25.009% -3.258%
motion_blur	1 1	64.0 64.57	-1.5 -0.93	-2.290% -1.420%	52.806 52.759	-1.874 -1.921	-3.426% -3.514%	52.232 51.931	-0.398 -0.699	-0.756% -1.329%	108.307 108.766	-4.893 -4.434	-4.322% -3.917%
glass_blur gaussian_blur	1	64.93	-0.93	-0.870%	53.323	-1.357	-2.481%	52.002	-0.628	-1.193%	112.114	-1.086	-0.960%
jpeg_compression	1	65.01	-0.49	-0.748%	53.156	-1.524	-2.787%	52.304	-0.326	-0.620%	111.194	-2.006	-1.772%
contrast elastic_transform	1	64.1 64.83	-1.4 -0.67	-2.137% -1.023%	53.101 53.252	-1.579 -1.428	-2.888% -2.612%	52.045 52.505	-0.585 -0.125	-1.111% -0.238%	109.412 109.741	-3.788 -3.459	-3.346% -3.056%
pixelate	1	62.37	-3.13	-4.779%	51.908	-2.772	-5.069%	51.572	-1.058	-2.011%	100.87	-12.33	-10.892%
snow frost	1	60.82 62.08	-4.68 -3.42	-7.145% -5.221%	50.644 50.811	-4.036 -3.869	-7.381% -7.076%	51.026 51.715	-1.604 -0.915	-3.047% -1.738%	96.456 101.172	-16.744 -12.028	-14.792% -10.626%
fog	1	63.61	-1.89	-2.885%	53.101	-1.579	-2.888%	51.041	-1.589	-3.020%	109.137	-4.063	-3.590%
brightness spatter	1 1	65.15 64.88	-0.35 -0.62	-0.534% -0.947%	53.061 53.029	-1.619 -1.651	-2.961% -3.019%	53.208 53.151	0.578 0.521	1.098% 0.989%	111.696 111.11	-1.504 -2.09	-1.329% -1.847%
saturate	1	62.75	-2.75	-4.198%	52.735	-1.945	-3.557%	52.332	-0.298	-0.565%	107.965	-5.235	-4.624%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Caption	n Decrease Ratio
impulse_noise	2	62.82	-2.68	-4.092%	51.98	-2.7	-4.938%	51.414	-1.216	-2.311%	103.863	-9.337	-8.248%
gaussian_noise	2	63.86	-1.64	-2.504%	52.298	-2.382	-4.357%	52.203	-0.427	-0.811%	107.057	-6.143	-5.427%
shot_noise speckle_noise	2 2	63.57 64.04	-1.93 -1.46	-2.947% -2.229%	52.139 52.306	-2.541 -2.374	-4.648% -4.342%	51.529 51.744	-1.101 -0.886	-2.093% -1.684%	107.056 108.473	-6.144 -4.727	-5.427% -4.176%
zoom_blur	2	56.43	-9.07	-13.847%	47.822	-6.858	-12.543%	50.079	-2.551	-4.847%	70.125	-43.075	-38.052%
defocus_blur motion_blur	2 2	63.95 63.53	-1.55 -1.97	-2.366% -3.008%	52.616 52.663	-2.064 -2.017	-3.775% -3.688%	51.83 51.715	-0.8 -0.915	-1.520% -1.738%	107.444 105.411	-5.756 -7.789	-5.085% -6.881%
glass_blur	2	63.33	-2.17	-3.313%	52.155	-2.525	-4.619%	51.227	-1.403	-2.665%	104.253	-8.947	-7.904%
gaussian_blur	2 2	64.19	-1.31	-2.000%	52.83	-1.85	-3.383% -3.252%	51.974	-0.656	-1.247%	108.266	-4.934	-4.359%
jpeg_compression contrast	2	64.85 63.29	-0.65 -2.21	-0.992% -3.374%	52.902 52.735	-1.778 -1.945	-3.252% -3.557%	52.591 51.199	-0.039 -1.431	-0.075% -2.720%	110.117 107.708	-3.083 -5.492	-2.723% -4.852%
elastic_transform	2	62.2	-3.3	-5.038%	51.344	-3.336	-6.102%	51.184	-1.446	-2.747%	95.894	-17.306	-15.288%
pixelate snow	2 2	61.61 57.96	-3.89 -7.54	-5.939% -11.511%	51.272 48.784	-3.408 -5.896	-6.233% -10.783%	50.94 50.108	-1.69 -2.522	-3.211% -4.793%	97.593 85.904	-15.607 -27.296	-13.787% -24.113%
frost	2	59.01	-6.49	-9.908%	49.372	-5.308	-9.708%	50.696	-1.934	-3.674%	89.042	-24.158	-21.341%
fog brightness	2 2	62.92 64.53	-2.58 -0.97	-3.939% -1.481%	52.655 52.465	-2.025 -2.215	-3.703% -4.052%	50.983 53.179	-1.647 0.549	-3.129% 1.044%	107.793 110.353	-5.407 -2.847	-4.777% -2.515%
spatter	2	61.78	-3.72	-5.679%	51.439	-3.241	-5.927%	52.749	0.119	0.225%	100.432	-12.768	-11.279%
saturate	2	60.44	-5.06	-7.725%	51.892	-2.788	-5.098%	51.557	-1.073	-2.038%	103.452	-9.748	-8.611%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	Decrease Ratio	Acc	NLV Decrease	Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	3	62.09	-3.41	-5.206%	51.137	-3.543	-6.480%	51.17	-1.46	-2.774%	100.455	-12.745	-11.259%
gaussian_noise shot_noise	3	62.37 62.27	-3.13 -3.23	-4.779% -4.931%	51.654 51.526	-3.026 -3.154	-5.535% -5.767%	51.658 50.782	-0.972 -1.848	-1.847% -3.511%	102.564 102.932	-10.636 -10.268	-9.395% -9.071%
speckle_noise	3	62.49	-3.01	-4.595%	51.924	-2.756	-5.040%	50.71	-1.92	-3.647%	102.737	-10.463	-9.243%
zoom_blur defocus_blur	3	54.03 62.26	-11.47 -3.24	-17.511% -4.947%	45.858 51.725	-8.822 -2.955	-16.134% -5.404%	49.691 51.055	-2.939 -1.575	-5.584% -2.993%	56.409 100.32	-56.791 -12.88	-50.168% -11.378%
motion_blur	3	61.78	-3.72	-5.679%	51.789	-2.891	-5.287%	50.911	-1.719	-3.265%	98.305	-14.895	-13.159%
glass_blur gaussian_blur	3	58.83 62.87	-6.67 -2.63	-10.183% -4.015%	48.489 51.844	-6.191 -2.836	-11.321% -5.186%	49.734 51.457	-2.896 -1.173	-5.502% -2.229%	84.446 103.333	-28.754 -9.867	-25.401% -8.716%
jpeg_compression	3	64.4	-2.03	-1.679%	52.95	-1.73	-3.165%	52.175	-0.455	-0.865%	109.433	-3.767	-3.328%
contrast	3	61.94	-3.56	-5.435%	51.495	-3.185	-5.825%	50.352	-2.278	-4.329%	104.423	-8.777	-7.754%
elastic_transform pixelate	3	63.49 59.55	-2.01 -5.95	-3.069% -9.084%	52.107 49.817	-2.573 -4.863	-4.706% -8.893%	52.49 49.935	-0.14 -2.695	-0.265% -5.120%	103.717 87.769	-9.483 -25.431	-8.377% -22.466%
snow	3	56.35	-9.15	-13.969%	47.686	-6.994	-12.790%	49.691	-2.939	-5.584%	77.513	-35.687	-31.526%
frost fog	3	56.35 61.76	-9.15 -3.74	-13.969% -5.710%	48.672 51.654	-6.008 -3.026	-10.987% -5.535%	50.093 50.94	-2.537 -1.69	-4.820% -3.211%	79.424 103.583	-33.776 -9.617	-29.837% -8.496%
brightness	3	64.06	-1.44	-2.198%	52.314	-2.366	-4.328%	53.021	0.391	0.744%	108.785	-4.415	-3.900%
spatter saturate	3	60.43 64.72	-5.07 -0.78	-7.740% -1.191%	50.882 52.52	-3.798 -2.16	-6.945% -3.950%	51.73 52.261	-0.9 -0.369	-1.711% -0.702%	94.514 110.6	-18.686 -2.6	-16.507% -2.297%
corruption	severity		VQ.	A		GQ.	A		NLV	R		Captio	n
impulse_noise	4	Acc 59.65	Decrease -5.85	Decrease Ratio	Acc 50.016	Decrease -4.664	Decrease Ratio	Acc 50.151	Decrease -2.479	Decrease Ratio	CIDer 92.61	Decrease -20.59	Decrease Ratio
gaussian_noise	4	59.74	-5.76	-8.794%	50.843	-3.837	-7.018%	50.208	-2.422	-4.602%	94.23	-18.97	-16.758%
shot_noise speckle_noise	4	59.27 60.83	-6.23 -4.67	-9.511% -7.130%	50.867 50.914	-3.813 -3.766	-6.974% -6.887%	49.993 50.538	-2.637 -2.092	-5.011% -3.974%	92.355 99.068	-20.845 -14.132	-18.414% -12.484%
zoom_blur	4	52.06	-4.67	-20.519%	44.959	-3.766 -9.721	-0.887% -17.777%	49.318	-3.312	-6.293%	47.284	-65.916	-12.484% -58.230%
defocus_blur	4	60.7 59.24	-4.8 -6.26	-7.328%	51.034	-3.646	-6.669%	50.538 50.022	-2.092	-3.974%	93.104	-20.096	-17.752%
motion_blur glass_blur	4	59.24 56.94	-6.26 -8.56	-9.557% -13.069%	50.517 47.853	-4.163 -6.827	-7.614% -12.485%	50.022 49.577	-2.608 -3.053	-4.956% -5.802%	86.707 76.664	-26.493 -36.536	-23.403% -32.276%
gaussian_blur	4	61.12	-4.38	-6.687%	51.105	-3.575	-6.538%	50.639	-1.991	-3.784%	96.619	-16.581	-14.647%
jpeg_compression contrast	4	63.32 58.13	-2.18 -7.37	-3.328% -11.252%	52.003 50.358	-2.677 -4.322	-4.895% -7.905%	52.074 49.304	-0.556 -3.326	-1.056% -6.320%	104.365 90.908	-8.835 -22.292	-7.804% -19.693%
elastic_transform	4	61.39	-4.11	-6.275%	50.747	-3.933	-7.192%	52.074	-0.556	-1.056%	95.498	-17.702	-15.638%
pixelate snow	4	55.72 52.95	-9.78 -12.55	-14.931% -19.160%	47.814 45.858	-6.866 -8.822	-12.557% -16.134%	49.333 49.132	-3.297 -3.498	-6.265% -6.647%	72.144 63.946	-41.056 -49.254	-36.269% -43.510%
frost	4	55.42	-10.08	-15.389%	47.726	-6.954	-12.717%	49.821	-2.809	-5.338%	75.2	-38.0	-33.568%
fog	4	59.96	-5.54	-8.458%	51.487	-3.193	-5.840%	50.51	-2.12	-4.029%	98.914	-14.286	-12.620%
brightness spatter	4	63.05 58.47	-2.45 -7.03	-3.740% -10.733%	52.163 49.483	-2.517 -5.197	-4.604% -9.504%	52.476 51.543	-0.154 -1.087	-0.293% -2.065%	105.655 84.696	-7.545 -28.504	-6.666% -25.181%
saturate	4	61.92	-3.58	-5.466%	50.97	-3.71	-6.785%	51.658	-0.972	-1.847%	103.23	-9.97	-8.808%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	5 5	55.86 55.9	-9.64 -9.6	-14.718% -14.656%	48.704 48.545	-5.976 -6.135	-10.929% -11.220%	49.447 49.218	-3.183 -3.412	-6.047% -6.483%	79.686 79.894	-33.514 -33.306	-29.606%
gaussian_noise shot_noise	5	55.9 56.64	-9.6 -8.86	-13.527%	48.545	-6.135 -5.539	-11.220% -10.129%	49.218	-3.412 -3.24	-6.483% -6.156%	79.894 83.068	-33.306	-29.422% -26.618%
speckle_noise	5	59.3	-6.2	-9.466%	50.31	-4.37	-7.992%	49.677	-2.953	-5.611%	92.35	-20.85	-18.419%
zoom_blur defocus_blur	5 5	50.14 58.85	-15.36 -6.65	-23.450% -10.153%	43.163 49.682	-11.517 -4.998	-21.063% -9.140%	49.103 49.663	-3.527 -2.967	-6.702% -5.638%	38.61 84.081	-74.59 -29.119	-65.892% -25.723%
motion_blur	5	57.1	-8.4	-12.824%	49.547	-5.133	-9.388%	50.05	-2.58	-4.902%	75.606	-37.594	-33.211%
glass_blur gaussian_blur	5 5	54.24 57.44	-11.26 -8.06	-17.191% -12.305%	45.913 48.593	-8.767 -6.087	-16.032% -11.132%	49.447 49.49	-3.183 -3.14	-6.047% -5.965%	64.191 81.52	-49.009 -31.68	-43.294% -27.986%
jpeg_compression	5	61.67	-3.83	-5.847%	51.36	-3.32	-6.073%	51.658	-0.972	-1.847%	99.056	-14.144	-12.495%
contrast	5	50.88	-14.62	-22.321%	45.834	-8.846	-16.178%	48.959	-3.671	-6.974%	61.73	-51.47	-45.469%
elastic_transform pixelate	5 5	55.81 53.11	-9.69 -12.39	-14.794% -18.916%	46.311 45.429	-8.369 -9.251	-15.305% -16.919%	50.395 49.318	-2.235 -3.312	-4.247% -6.293%	69.273 59.018	-43.927 -54.182	-38.805% -47.864%
snow	5	53.96	-11.54	-17.618%	47.066	-7.614	-13.924%	49.476	-3.154	-5.993%	69.515	-43.685	-38.591%
frost fog	5 5	54.04 56.8	-11.46 -8.7	-17.496% -13.282%	47.368 49.277	-7.312 -5.403	-13.372% -9.882%	49.419 50.639	-3.211 -1.991	-6.102% -3.784%	69.553 83.808	-43.647 -29.392	-38.558% -25.964%
brightness	5	62.01	-3.49	-5.328%	51.288	-3.392	-6.203%	52.131	-0.499	-0.947%	102.703	-10.497	-9.273%
spatter saturate	5 5	55.55 59.44	-9.95 -6.06	-15.191% -9.252%	47.496 50.167	-7.184 -4.513	-13.139% -8.254%	50.208 50.179	-2.422 -2.451	-4.602% -4.656%	71.456 96.503	-41.744 -16.697	-36.877% -14.750%
satul atc	J	57.44	-0.00	- 1.232 /0	50.107	-4.515	-0.234 /0	50.179	-2.431		70.303	-10.077	-17.73070

Table 25: Performance and decrease ratio of Single Adapter on CLIP-T5 against image corruptions given severity 1 to 5.

given seve			VQ.	A		GQ.	Λ.		NLV	R		Captio	n
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian noise	1	64.39 65.09	-2.02 -1.32	-3.042% -1.988%	48.179 48.72	-7.721 -7.18	-13.812% -12.844%	71.695 72.04	-1.085 -0.74	-1.491% -1.017%	106.315 108.347	-5.385 -3.353	-4.821% -3.002%
shot_noise	i	65.2	-1.21	-1.822%	48.776	-7.124	-12.745%	71.81	-0.97	-1.333%	108.413	-3.287	-2.942%
speckle_noise zoom_blur	1 1	65.06 59.35	-1.35 -7.06	-2.033% -10.631%	48.943 45.54	-6.957 -10.36	-12.446% -18.533%	71.523 56.064	-1.257 -16.716	-1.727% -22.967%	108.565 84.143	-3.135 -27.557	-2.807% -24.670%
defocus_blur	1	65.11	-1.3	-1.958%	48.863	-7.037	-12.588%	72.241	-0.539	-0.741%	108.171	-3.529	-3.159%
motion_blur glass_blur	1	64.88 65.3	-1.53 -1.11	-2.304% -1.671%	49.022 48.895	-6.878 -7.005	-12.304% -12.531%	71.781 71.523	-0.999 -1.257	-1.372% -1.727%	107.027 108.394	-4.673 -3.306	-4.184% -2.960%
gaussian_blur	1	65.94	-0.47	-0.708%	49.38	-6.52	-11.664%	72.686	-0.094	-0.130%	110.921	-0.779	-0.698%
jpeg_compression	1	65.75	-0.66 -1.34	-0.994%	49.046 49.308	-6.854 -6.592	-12.261%	72.772	-0.008	-0.011%	110.094 108.489	-1.606	-1.437%
contrast elastic_transform	1	65.07 66.04	-0.37	-2.018% -0.557%	48.831	-7.069	-11.792% -12.645%	71.638 72.04	-1.142 -0.74	-1.569% -1.017%	109.629	-3.211 -2.071	-2.874% -1.854%
pixelate	1	62.97	-3.44	-5.180%	48.259	-7.641	-13.669%	69.628	-3.152	-4.331%	100.7	-11.0	-9.848%
snow frost	1	61.89 62.91	-4.52 -3.5	-6.806% -5.270%	46.613 47.631	-9.287 -8.269	-16.613% -14.793%	69.614 70.073	-3.166 -2.707	-4.350% -3.719%	97.265 100.419	-14.435 -11.281	-12.923% -10.100%
fog	1	64.64	-1.77	-2.665%	49.197	-6.703	-11.991%	71.308	-1.472	-2.023%	106.947	-4.753	-4.255%
brightness spatter	1	66.13 65.88	-0.28 -0.53	-0.422% -0.798%	49.865 49.348	-6.035 -6.552	-10.796% -11.721%	72.585 72.528	-0.195 -0.252	-0.268% -0.347%	111.78 110.277	0.08 -1.423	0.072% -1.274%
saturate	1	63.58	-2.83	-4.261%	48.752	-7.148	-12.787%	70.848	-1.932	-2.654%	106.852	-4.848	-4.340%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	2	63.59	-2.82	-4.246%	47.718	-8.182	-14.636%	71.035	-1.745	-2.398%	103.652	-8.048	-7.205%
gaussian_noise	2 2	64.4	-2.01 -2.23	-3.027%	48.195	-7.705 -7.84	-13.783% -14.025%	71.595 70.906	-1.185	-1.629% -2.575%	106.963 106.358	-4.737 -5.342	-4.241% -4.783%
shot_noise speckle_noise	2	64.18 64.51	-1.9	-3.358% -2.861%	48.06 48.696	-7.204	-14.023%	71.465	-1.874 -1.315	-1.806%	108.147	-3.553	-3.181%
zoom_blur	2	56.34	-10.07	-15.163%	43.862	-12.038	-21.534%	60.499	-12.281	-16.873%	69.331	-42.369	-37.931%
defocus_blur motion_blur	2 2	64.54 64.21	-1.87 -2.2	-2.816% -3.313%	48.402 47.949	-7.498 -7.951	-13.413% -14.224%	71.422 71.796	-1.358 -0.984	-1.865% -1.353%	106.664 104.266	-5.036 -7.434	-4.509% -6.655%
glass_blur	2	64.06	-2.35	-3.539%	48.346	-7.554	-13.513%	70.088	-2.692	-3.699%	104.132	-7.568	-6.776%
gaussian_blur jpeg_compression	2 2	64.78 65.56	-1.63 -0.85	-2.454% -1.280%	48.672 49.141	-7.228 -6.759	-12.930% -12.091%	72.111 71.753	-0.669 -1.027	-0.919% -1.412%	107.162 108.73	-4.538 -2.97	-4.063% -2.659%
contrast	2	64.61	-1.8	-2.710%	48.696	-7.204	-12.887%	70.949	-1.831	-2.516%	106.802	-4.898	-4.385%
elastic_transform pixelate	2 2	62.7 62.0	-3.71 -4.41	-5.587% -6.641%	47.217 47.559	-8.683 -8.341	-15.532% -14.921%	68.25 67.217	-4.53 -5.563	-6.224% -7.644%	95.436 97.393	-16.264 -14.307	-14.560% -12.809%
snow	2	58.66	-7.75	-11.670%	45.007	-10.893	-19.486%	66.829	-5.951	-8.176%	86.053	-25.647	-22.961%
frost	2 2	59.41 63.87	-7.0 -2.54	-10.541% -3.825%	45.182 48.545	-10.718 -7.355	-19.173% -13.157%	68.164 66.872	-4.616 -5.908	-6.342% -8.117%	88.041 105.731	-23.659 -5.969	-21.181% -5.344%
fog brightness	2	65.54	-2.34	-1.310%	49.03	-1.333 -6.87	-13.137% -12.290%	72.083	-0.697	-8.117% -0.958%	110.209	-1.491	-1.335%
spatter saturate	2 2	62.68 60.78	-3.73 -5.63	-5.617% -8.478%	47.241 47.599	-8.659 -8.301	-15.490% -14.850%	70.662 68.308	-2.118 -4.472	-2.911% -6.145%	100.122 102.969	-11.578 -8.731	-10.365% -7.817%
		00.70	VQ		17.577	GQ/		00.500	NLV		102.505	Captio	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian noise	3	62.77 62.75	-3.64 -3.66	-5.481% -5.511%	47.663 47.567	-8.237 -8.333	-14.736% -14.907%	69.643 69.872	-3.137 -2.908	-4.311% -3.995%	101.158 101.867	-10.542 -9.833	-9.438% -8.803%
shot_noise	3	62.77	-3.64	-5.481%	47.607	-8.293	-14.836%	69.485	-3.295	-4.528%	101.669	-10.031	-8.981%
speckle_noise zoom_blur	3	62.93 53.54	-3.48 -12.87	-5.240% -19.380%	47.869 42.161	-8.031 -13.739	-14.366% -24.578%	70.03 57.93	-2.75 -14.85	-3.778% -20.404%	102.022 56.396	-9.678 -55.304	-8.664% -49.511%
defocus_blur	3	62.63	-3.78	-5.692%	47.241	-8.659	-15.490%	70.303	-2.477	-3.404%	100.458	-11.242	-10.064%
motion_blur glass_blur	3	62.53 59.01	-3.88 -7.4	-5.842% -11.143%	47.138 45.023	-8.762 -10.877	-15.675% -19.458%	70.001 68.423	-2.779 -4.357	-3.818% -5.987%	97.977 84.487	-13.723 -27.213	-12.285% -24.363%
gaussian_blur	3	63.39	-3.02	-4.548%	47.639	-8.261	-14.779%	70.389	-2.391	-3.285%	101.939	-9.761	-8.739%
jpeg_compression contrast	3	65.07 62.86	-1.34 -3.55	-2.018% -5.346%	49.205 47.798	-6.695 -8.102	-11.977% -14.494%	72.37 69.944	-0.41 -2.836	-0.564% -3.897%	108.003 102.8	-3.697 -8.9	-3.310% -7.968%
elastic transform	3	64.35	-2.06	-3.102%	48.267	-7.633	-14.494%	70.963	-2.830	-2.496%	104.007	-8.9 -7.693	-6.887%
pixelate	3	59.89	-6.52	-9.818%	46.438	-9.462	-16.926%	66.069	-6.711	-9.221%	88.354	-23.346	-20.901%
snow frost	3	56.58 56.7	-9.83 -9.71	-14.802% -14.621%	43.775 43.759	-12.125 -12.141	-21.691% -21.719%	64.834 66.097	-7.946 -6.683	-10.918% -9.182%	78.536 79.485	-33.164 -32.215	-29.690% -28.841%
fog	3	62.41	-4.0	-6.023%	47.631	-8.269	-14.793%	70.36	-2.42	-3.325%	103.165	-8.535	-7.641%
brightness spatter	3	64.99 61.06	-1.42 -5.35	-2.138% -8.056%	49.086 46.494	-6.814 -9.406	-12.190% -16.827%	71.509 69.757	-1.271 -3.023	-1.747% -4.153%	108.595 94.485	-3.105 -17.215	-2.780% -15.412%
saturate	3	65.57	-0.84	-1.265%	48.823	-7.077	-12.659%	72.255	-0.525	-0.721%	109.806	-1.894	-1.696%
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio Decrease	n Decrease Ratio
impulse_noise	4	60.08	-6.33	-9.532%	46.629	-9.271	-16.585%	67.92	-4.86	-6.677%	91.542	-20.158	-18.047%
gaussian_noise shot noise	4	60.52 59.86	-5.89 -6.55	-8.869% -9.863%	46.669 46.43	-9.231 -9.47	-16.514% -16.940%	67.92 66.858	-4.86 -5.922	-6.677% -8.137%	93.698 92.268	-18.002 -19.432	-16.117% -17.397%
speckle_noise	4	61.76	-4.65	-7.002%	47.368	-8.532	-15.262%	68.121	-4.659	-6.401%	97.948	-13.752	-12.311%
zoom_blur defocus_blur	4	51.82 60.99	-14.59 -5.42	-21.970% -8.161%	40.491 46.343	-15.409 -9.557	-27.565% -17.097%	56.294 68.121	-16.486 -4.659	-22.652% -6.401%	45.757 92.304	-65.943 -19.396	-59.036% -17.364%
motion_blur	4	59.72	-6.69	-10.074%	45.818	-10.082	-18.036%	67.016	-5.764	-7.920%	86.089	-25.611	-22.928%
glass_blur	4	57.15 61.56	-9.26 -4.85	-13.944% -7.303%	43.401 46.661	-12.499 -9.239	-22.359% -16.528%	67.303 69.212	-5.477 -3.568	-7.525% -4.902%	77.581 95.388	-34.119 -16.312	-30.545% -14.603%
jpeg_compression	4	64.02	-2.39	-3.599%	48.227	-7.673	-13.726%	70.777	-2.003	-2.753%	104.095	-7.605	-6.808%
contrast	4	58.47 62.24	-7.94 -4.17	-11.956% -6.279%	45.5 46.542	-10.4 -9.358	-18.605%	65.121 71.107	-7.659 -1.673	-10.523% -2.299%	90.667 95.638	-21.033	-18.830% -14.380%
elastic_transform pixelate	4	55.85	-4.17 -10.56	-6.279% -15.901%	44.141	-9.358 -11.759	-16.741% -21.037%	61.461	-1.6/3 -11.319	-15.552%	72.151	-16.062 -39.549	-14.380% -35.406%
snow	4	53.48	-12.93	-19.470%	41.207	-14.693	-26.285%	62.71	-10.07	-13.836%	63.568	-48.132	-43.090%
frost fog	4	55.96 61.0	-10.45 -5.41	-15.736% -8.146%	43.512 46.677	-12.388 -9.223	-22.160% -16.500%	65.767 69.427	-7.013 -3.353	-9.636% -4.607%	76.794 97.95	-34.906 -13.75	-31.250% -12.310%
brightness	4	64.03	-2.38	-3.584%	48.489	-7.411	-13.257%	70.518	-2.262	-3.108%	106.423	-5.277	-4.724%
spatter saturate	4	58.95 62.76	-7.46 -3.65	-11.233% -5.496%	44.514 47.122	-11.386 -8.778	-20.368% -15.703%	67.26 69.528	-5.52 -3.252	-7.585% -4.469%	85.064 103.783	-26.636 -7.917	-23.846% -7.088%
corruption	severity		VQ	Α		GQA			NLV			Captio	
impulse_noise	5	Acc 56.48	-9.93	Decrease Ratio	Acc 44.657	Decrease -11.243	Decrease Ratio	Acc 64.935	Decrease -7.845	Decrease Ratio	78.788	-32.912	Decrease Ratio
gaussian_noise	5	56.4	-10.01	-15.073%	43.91	-11.99	-21.449%	65.05	-7.73	-10.622%	79.632	-32.068	-28.709%
shot_noise speckle_noise	5 5	57.21 59.94	-9.2 -6.47	-13.853% -9.743%	44.586 46.828	-11.314 -9.072	-20.240% -16.229%	65.021 66.485	-7.759 -6.295	-10.661% -8.650%	81.986 91.411	-29.714 -20.289	-26.602% -18.164%
zoom_blur	5	49.58	-16.83	-25.343%	39.06	-16.84	-30.125%	55.06	-17.72	-24.348%	37.009	-74.691	-66.867%
defocus_blur motion_blur	5 5	59.16 57.21	-7.25 -9.2	-10.917% -13.853%	45.58 44.8	-10.32 -11.1	-18.462% -19.856%	66.284 65.222	-6.496 -7.558	-8.926% -10.385%	83.256 74.122	-28.444 -37.578	-25.465% -33.642%
glass_blur	5	54.04	-12.37	-18.627%	41.326	-14.574	-26.071%	65.667	-7.113	-9.774%	64.263	-47.437	-42.468%
gaussian_blur	5	57.96	-8.45	-12.724%	44.785	-11.115	-19.885%	65.624	-7.156	-9.833%	80.347	-31.353	-28.069%
jpeg_compression contrast	5 5	61.9 50.97	-4.51 -15.44	-6.791% -23.250%	47.241 41.151	-8.659 -14.749	-15.490% -26.384%	70.001 58.031	-2.779 -14.749	-3.818% -20.266%	98.008 60.239	-13.692 -51.461	-12.258% -46.071%
elastic_transform	5	55.63	-10.78	-16.232%	42.36	-13.54	-24.222%	66.7	-6.08	-8.354%	68.099	-43.601	-39.034%
pixelate snow	5 5	52.94 54.49	-13.47 -11.92	-20.283% -17.949%	41.684 42.614	-14.216 -13.286	-25.431% -23.767%	59.064 62.911	-13.716 -9.869	-18.846% -13.560%	60.312 70.457	-51.388 -41.243	-46.005% -36.923%
frost	5	54.5	-11.91	-17.934%	42.622	-13.278	-23.753%	63.959	-8.821	-12.121%	70.364	-41.336	-37.006%
fog brightness	5 5	57.55 62.74	-8.86 -3.67	-13.341% -5.526%	44.315 47.75	-11.585 -8.15	-20.724% -14.580%	66.801 69.212	-5.979 -3.568	-8.216% -4.902%	83.999 103.175	-27.701 -8.525	-24.799% -7.632%
brightness spatter	5	55.98	-10.43	-15.705%	43.624	-12.276	-21.961%	64.576	-8.204	-11.273%	71.794	-39.906	-35.726%
saturate	5	60.24	-6.17	-9.291%	45.635	-10.265	-18.363%	65.896	-6.884	-9.458%	96.896	-14.804	-13.253%

Table 26: Performance and decrease ratio of Single Compacter on CLIP-T5 against image corruptions given severity 1 to 5.

<u>Siven seve</u>	iity i	10 5.											
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQA Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	1	64.34	-1.64	-2.486%	49.173	-6.157	-11.127%	70.604	-0.866	-1.211%	106.839	-4.769	-4.273%
gaussian_noise	1	65.06	-0.92	-1.394%	49.698	-5.632	-10.179%	71.48	0.01	0.014%	109.21	-2.398	-2.148%
shot_noise	1	64.69	-1.29	-1.955%	49.873	-5.457	-9.863%	71.178	-0.292	-0.408%	109.533	-2.075	-1.859%
speckle_noise	1	65.11 59.27	-0.87 -6.71	-1.319% -10.170%	49.555 46.303	-5.775 -9.027	-10.438%	71.006 56.653	-0.464 -14.817	-0.649% -20.732%	108.916 84.187	-2.692 -27.421	-2.412% -24.569%
zoom_blur defocus_blur	i	64.96	-1.02	-1.546%	50.246	-5.084	-16.315% -9.188%	71.523	0.053	0.074%	108.313	-3.295	-24.309%
motion_blur	i	64.57	-1.41	-2.137%	50.08	-5.25	-9.489%	71.465	-0.005	-0.006%	107.603	-4.005	-3.589%
glass_blur	1	65.0	-0.98	-1.485%	49.936	-5.394	-9.748%	71.81	0.34	0.476%	107.836	-3.772	-3.380%
gaussian_blur	1	65.67	-0.31	-0.470%	50.509	-4.821	-8.713%	72.154	0.684	0.958%	110.363	-1.245	-1.116%
jpeg_compression contrast	1	65.33 64.47	-0.65 -1.51	-0.985% -2.289%	49.865 49.897	-5.465 -5.433	-9.877% -9.820%	71.695 71.293	0.225 -0.177	0.315% -0.247%	110.22 109.325	-1.388 -2.283	-1.244% -2.046%
elastic_transform	1	65.56	-0.42	-0.637%	50.461	-4.869	-8.800%	70.92	-0.177	-0.769%	109.553	-2.265	-1.842%
pixelate	i	62.55	-3.43	-5.199%	49.078	-6.252	-11.300%	69.255	-2.215	-3.099%	99.334	-12.274	-10.997%
snow	1	61.8	-4.18	-6.335%	47.233	-8.097	-14.634%	69.356	-2.114	-2.959%	98.235	-13.373	-11.982%
frost	1	62.99	-2.99	-4.532%	48.275	-7.055	-12.751%	69.7	-1.77	-2.477%	101.553	-10.055	-9.009%
fog brightness	1 1	64.06 65.77	-1.92 -0.21	-2.910% -0.318%	49.014 50.342	-6.316 -4.988	-11.415% -9.015%	71.107 72.269	-0.363 0.799	-0.508% 1.118%	108.101 111.312	-3.507 -0.296	-3.142% -0.265%
spatter	1	65.54	-0.44	-0.667%	50.358	-4.972	-8.987%	71.867	0.397	0.556%	110.781	-0.230	-0.741%
saturate	1	63.23	-2.75	-4.168%	49.125	-6.205	-11.214%	69.858	-1.612	-2.256%	108.422	-3.186	-2.855%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	2	63.37	-2.61	-3.956%	48.156	-7.174	-12.967%	69.815	-1.655	-2.316%	103.597	-8.011	-7.178%
gaussian_noise	2	64.15	-1.83	-2.774%	48.951	-6.379	-11.530%	70.604	-0.866	-1.211%	106.617	-4.991	-4.472%
shot_noise speckle_noise	2 2	64.11 64.47	-1.87 -1.51	-2.834% -2.289%	48.648 49.499	-6.682 -5.831	-12.076% -10.538%	70.375 70.446	-1.095 -1.024	-1.533% -1.432%	106.087 107.824	-5.521 -3.784	-4.947% -3.391%
zoom_blur	2	56.25	-9.73	-2.289% -14.747%	43.616	-11.714	-10.338%	61.246	-10.224	-14.305%	69.493	-42.115	-37.735%
defocus_blur	2	64.31	-1.67	-2.531%	49.841	-5.489	-9.920%	70.848	-0.622	-0.870%	106.883	-4.725	-4.234%
motion_blur	2	63.87	-2.11	-3.198%	49.404	-5.926	-10.711%	71.193	-0.277	-0.388%	104.626	-6.982	-6.256%
glass_blur	2	63.92	-2.06	-3.122%	48.744	-6.586	-11.903%	70.418	-1.052	-1.472%	105.046	-6.562	-5.879%
gaussian_blur	2 2	64.76 65.31	-1.22 -0.67	-1.849% -1.015%	49.849 49.777	-5.481 -5.553	-9.906% -10.035%	71.465 71.394	-0.005 -0.076	-0.006% -0.107%	108.204 109.696	-3.404 -1.912	-3.050% -1.713%
jpeg_compression contrast	2	63.99	-0.67 -1.99	-1.015% -3.016%	49.777	-5.553 -5.799	-10.035% -10.481%	70.332	-0.076	-0.107% -1.593%	109.696	-1.912 -4.376	-1./13% -3.921%
elastic_transform	2	62.63	-3.35	-5.077%	48.124	-7.206	-13.024%	67.906	-3.564	-4.987%	95.87	-15.738	-14.101%
pixelate	2	61.75	-4.23	-6.411%	48.378	-6.952	-12.564%	66.327	-5.143	-7.196%	98.188	-13.42	-12.024%
snow	2	59.0	-6.98	-10.579%	44.999	-10.331	-18.671%	66.944	-4.526	-6.332%	86.967	-24.641	-22.078%
frost fog	2 2	59.47 63.53	-6.51 -2.45	-9.867% -3.713%	46.057 49.11	-9.273 -6.22	-16.760% -11.242%	67.604 67.274	-3.866 -4.196	-5.409% -5.871%	89.402 106.995	-22.206 -4.613	-19.897% -4.133%
brightness	2	65.24	-0.74	-1.122%	49.11	-5.481	-9.906%	72.068	0.598	0.837%	100.993	-2.099	-1.881%
spatter	2	62.55	-3.43	-5.199%	47.845	-7.485	-13.527%	70.59	-0.88	-1.231%	101.615	-9.993	-8.954%
saturate	2	60.67	-5.31	-8.048%	48.06	-7.27	-13.139%	68.38	-3.09	-4.324%	103.972	-7.636	-6.842%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio: Decrease	n Decrease Ratio
impulse_noise	3	62.57	-3.41	-5.168%	48.235	-7.095	-12.823%	68.81	-2.66	-3.722%	101.344	-10.264	-9.196%
gaussian_noise	3	62.38	-3.6	-5.456%	47.949	-7.381	-13.340%	69.456	-2.014	-2.818%	102.499	-9.109	-8.162%
shot_noise	3	62.61	-3.37	-5.108%	48.362	-6.968	-12.593%	69.068	-2.402	-3.360%	102.088	-9.52	-8.530%
speckle_noise zoom_blur	3	62.73 53.24	-3.25 -12.74	-4.926% -19.309%	48.585 42.686	-6.745 -12.644	-12.191% -22.853%	69.499 58.375	-1.971 -13.095	-2.758% -18.322%	101.562 55.099	-10.046 -56.509	-9.001% -50.632%
defocus blur	3	62.52	-3.46	-5.244%	48.704	-6.626	-11.975%	68.781	-2.689	-3.762%	100.846	-10.762	-9.643%
motion_blur	3	62.18	-3.8	-5.759%	48.346	-6.984	-12.622%	69.399	-2.071	-2.898%	99.063	-12.545	-11.241%
glass_blur	3	59.11	-6.87	-10.412%	45.723	-9.607	-17.364%	67.877	-3.593	-5.027%	85.808	-25.8	-23.117%
gaussian_blur	3	63.2	-2.78	-4.213%	49.07	-6.26	-11.314%	69.729	-1.741	-2.436%	102.557	-9.051	-8.109%
jpeg_compression contrast	3	64.84 62.71	-1.14 -3.27	-1.728% -4.956%	50.024 48.394	-5.306 -6.936	-9.590% -12.536%	70.863 69.212	-0.607 -2.258	-0.850% -3.159%	108.493 103.634	-3.115 -7.974	-2.791% -7.144%
elastic_transform	3	64.03	-1.95	-2.955%	48.696	-6.634	-11.990%	71.322	-0.148	-0.207%	103.634	-6.992	-6.265%
pixelate	3	59.65	-6.33	-9.594%	47.639	-7.691	-13.901%	65.365	-6.105	-8.542%	88.857	-22.751	-20.385%
snow	3	57.15	-8.83	-13.383%	43.974	-11.356	-20.525%	65.523	-5.947	-8.321%	79.64	-31.968	-28.643%
frost	3	57.42	-8.56	-12.974%	44.705	-10.625	-19.203%	65.394	-6.076	-8.501%	80.379	-31.229	-27.981%
fog	3	62.29 64.73	-3.69 -1.25	-5.593% -1.895%	48.418 49.785	-6.912 -5.545	-12.493% -10.021%	69.973	-1.497 -0.593	-2.095% -0.830%	103.726 108.626	-7.882 -2.982	-7.063% -2.672%
brightness spatter	3	61.05	-4.93	-7.472%	47.353	-7.977	-14.418%	70.877 69.657	-1.813	-2.537%	95.073	-16.535	-14.815%
saturate	3	65.19	-0.79	-1.197%	49.65	-5.68	-10.265%	71.796	0.326	0.456%	109.935	-1.673	-1.499%
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	Acc	NLV Decrease	R Decrease Ratio	CIDer	Captio	n Decrease Ratio
impulse_noise	4	59.9	-6.08	-9.215%	46.621	-8.709	-15.740%	66.915	-4.555	-6.373%	92.218	-19.39	-17.373%
gaussian_noise	4	60.16	-5.82	-8.821%	47.146	-8.184	-14.792%	66.93	-4.54	-6.353%	92.785	-18.823	-16.866%
shot_noise	4	59.64	-6.34	-9.609%	46.796	-8.534	-15.424%	66.485	-4.985	-6.975%	91.896	-19.712	-17.662%
speckle_noise	4	61.51	-4.47	-6.775%	47.957	-7.373	-13.326%	68.092	-3.378	-4.726%	99.309	-12.299	-11.020%
zoom_blur	4	51.26	-14.72 -5.07	-22.310% -7.684%	40.881 47.058	-14.449 -8.272	-26.114%	57.055	-14.415 -3.636	-20.170% 5.087%	46.028 93.843	-65.58 -17.765	-58.759% 15.017%
defocus_blur motion_blur	4	60.91 59.6	-5.07 -6.38	-7.684% -9.670%	46.661	-8.272 -8.669	-14.950% -15.668%	67.834 66.6	-3.636 -4.87	-5.087% -6.814%	93.843 86.126	-17.765	-15.917% -22.832%
glass_blur	4	56.87	-9.11	-13.807%	44.482	-10.848	-19.605%	66.528	-4.942	-6.915%	77.062	-34.546	-30.953%
gaussian_blur	4	61.44	-4.54	-6.881%	47.694	-7.636	-13.800%	68.078	-3.392	-4.746%	96.446	-15.162	-13.585%
jpeg_compression	4	63.77	-2.21	-3.349%	49.213	-6.117	-11.056%	70.044	-1.426	-1.995%	105.105	-6.503	-5.826%
contrast	4	58.69	-7.29 -3.93	-11.049% -5.956%	46.057 47.368	-9.273 -7.962	-16.760% -14.389%	65.595 69.743	-5.875	-8.220% -2.416%	90.592	-21.016 -14.869	-18.830% -13.323%
elastic_transform pixelate	4	62.05 55.86	-3.93 -10.12	-5.956% -15.338%	44.697	-7.962 -10.633	-14.389% -19.217%	69.743	-1.727 -9.593	-2.416% -13.422%	96.739 73.555	-14.869 -38.053	-13.323% -34.095%
snow	4	53.9	-10.12	-13.338%	42.185	-13.145	-19.217%	61.964	-9.595 -9.506	-13.422%	64.249	-47.359	-42.434%
frost	4	56.09	-9.89	-14.989%	43.799	-11.531	-20.841%	64.719	-6.751	-9.445%	76.758	-34.85	-31.226%
fog	4	60.65	-5.33	-8.078%	47.678	-7.652	-13.829%	68.423	-3.047	-4.264%	98.035	-13.573	-12.161%
brightness	4	63.93	-2.05	-3.107%	49.388	-5.942	-10.740%	69.542	-1.928	-2.697%	105.8	-5.808	-5.203%
spatter saturate	4	58.78 62.61	-7.2 -3.37	-10.912% -5.108%	45.111 48.497	-10.219 -6.833	-18.470% -12.349%	66.901 69.183	-4.569 -2.287	-6.393% -3.200%	86.529 104.089	-25.079 -7.519	-22.471% -6.737%
corruption	severity		VQ			GQA			NLV			Captio	n
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
impulse_noise gaussian_noise	5 5	55.93 55.97	-10.05 -10.01	-15.232% -15.171%	44.3 44.355	-11.03 -10.975	-19.936% -19.835%	63.916 64.145	-7.554 -7.325	-10.570% -10.249%	79.424 78.576	-32.184 -33.032	-28.837% -29.596%
shot_noise	5	57.1	-8.88	-13.171%	44.333	-10.975	-19.835% -19.174%	64.303	-7.323 -7.167	-10.249%	83.25	-33.032	-29.396% -25.409%
speckle_noise	5	59.57	-6.41	-9.715%	47.321	-8.009	-14.475%	66.786	-4.684	-6.553%	91.25	-20.358	-18.240%
zoom_blur	5	49.43	-16.55	-25.083%	39.593	-15.737	-28.442%	56.107	-15.363	-21.495%	36.829	-74.779	-67.001%
defocus_blur	5	59.11	-6.87	-10.412%	46.589	-8.741	-15.797%	66.6	-4.87	-6.814%	83.726	-27.882	-24.982%
motion_blur	5	56.82	-9.16	-13.883%	45.556	-9.774	-17.665%	64.963	-6.507	-9.104%	75.171	-36.437	-32.648%
glass_blur gaussian_blur	5 5	53.99 57.76	-11.99 -8.22	-18.172% -12.458%	42.63 45.492	-12.7 -9.838	-22.953% -17.780%	64.978 64.82	-6.492 -6.65	-9.084% -9.305%	65.19 80.959	-46.418 -30.649	-41.590% -27.462%
jpeg_compression	5	61.81	-8.22 -4.17	-12.458% -6.320%	48.06	-9.838 -7.27	-17.780%	68.537	-0.03	-9.303% -4.103%	98.517	-13.091	-27.462% -11.730%
contrast	5	50.86	-15.12	-22.916%	41.684	-13.646	-24.663%	59.509	-11.961	-16.736%	61.199	-50.409	-45.166%
elastic_transform	5	55.73	-10.25	-15.535%	43.155	-12.175	-22.005%	65.982	-5.488	-7.678%	70.609	-40.999	-36.735%
pixelate	5	52.89	-13.09	-19.839%	42.24	-13.09	-23.657%	59.811	-11.659	-16.314%	60.431	-51.177	-45.854%
snow	5	54.95	-11.03	-16.717%	43.338	-11.992	-21.674%	63.054	-8.416	-11.775%	71.876	-39.732	-35.599%
frost	5 5	55.07 57.3	-10.91 -8.68	-16.535% -13.156%	43.56	-11.77 -10.641	-21.272% -19.232%	63.829	-7.641 -4.87	-10.691% -6.814%	71.582 83.624	-40.026 -27.984	-35.863% -25.073%
fog brightness	5	57.3 62.53	-8.68 -3.45	-13.156% -5.229%	44.689 48.847	-10.641 -6.483	-19.232% -11.717%	66.6 68.738	-4.87 -2.732	-6.814% -3.822%	83.624 103.316	-27.984 -8.292	-25.073% -7.430%
spatter	5	55.91	-10.07	-15.262%	43.791	-11.539	-20.855%	64.676	-6.794	-9.506%	73.608	-38	-34.048%
saturate	5	59.83	-6.15	-9.321%	47.106	-8.224	-14.863%	65.322	-6.148	-8.602%	97.211	-14.397	-12.900%

Table 27: Performance and decrease ratio of Full Finetuning on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQ/		arn	NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	55.75	-11.0	-16.479%	44.769	-10.271	-18.662%	56.581	-16.429	-22.502%
typos	1.0	57.86	-8.89	-13.318%	46.128	-8.912	-16.192%	70.044	-2.966	-4.062%
keyboard	1.0	56.36	-10.39	-15.566%	44.753	-10.287	-18.691%	69.671	-3.339	-4.573%
spell_error	1.0	57.38	-9.37	-14.037%	46.375	-8.665	-15.744%	69.915	-3.095	-4.239%
random_char_insert	1.0	52.55	-14.2	-21.273%	36.015	-19.025	-34.565%	64.605	-8.405	-11.513%
random_char_replace	1.0	48.69	-18.06	-27.056%	32.35	-22.69	-41.224%	62.48	-10.53	-14.422%
random_char_swap	1.0	42.09	-24.66	-36.944%	26.499	-28.541	-51.856%	58.088	-14.922	-20.438%
random_char_delete	1.0	50.47	-16.28	-24.390%	34.982	-20.058	-36.443%	63.298	-9.712	-13.302%
random_word_insert	1.0	66.71	-0.04	-0.060%	52.568	-2.472	-4.491%	71.308	-1.702	-2.332%
random_word_delete	1.0	66.55	-0.2	-0.300%	53.896	-1.144	-2.079%	72.255	-0.755	-1.034%
swap_syn_word_emb	1.0	55.57	-11.18	-16.749%	46.232	-8.808	-16.004%	67.604	-5.406	-7.404%
swap_syn_word_net	1.0	58.71	-8.04	-12.045%	47.535	-7.505	-13.635%	70.533	-2.477	-3.393%
random_word_swap	1.0	66.67	-0.08	-0.120%	54.071	-0.969	-1.761%	72.47	-0.54	-0.739%
			VQ.	A		GQ.	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	55.49	-11.26	-16.869%	39.998	-15.042	-27.328%	65.509	-7.501	-10.274%
typos	2.0	56.43	-10.32	-15.461%	41.294	-13.746	-24.974%	66.241	-6.769	-9.272%
keyboard	2.0	55.84	-10.91	-16.345%	40.022	-15.018	-27.285%	65.652	-7.358	-10.078%
spell_error	2.0	57.18	-9.57	-14.337%	42.28	-12.76	-23.183%	66.671	-6.339	-8.682%
random_char_insert	2.0	41.54	-25.21	-37.768%	26.101	-28.939	-52.578%	59.05	-13.96	-19.121%
random_char_replace	2.0	36.15	-30.6	-45.843%	22.404	-32.636	-59.295%	56.796	-16.214	-22.207%
random_char_swap	2.0	32.66	-34.09	-51.071%	20.782	-34.258	-62.241%	54.816	-18.194	-24.920%
random_char_delete	2.0	38.71	-28.04	-42.007%	25.338	-29.702	-53.965%	57.887	-15.123	-20.713%
random_word_insert	2.0	65.25	-1.5	-2.247%	47.233	-7.807	-14.184%	68.724	-4.286	-5.870%
random_word_delete	2.0	60.35	-6.4	-9.588%	48.434	-6.606	-12.003%	69.686	-3.324	-4.553%
swap_syn_word_emb	2.0	55.13	-11.62	-17.408%	42.113	-12.927	-23.486%	62.94	-10.07	-13.793%
swap_syn_word_net	2.0	57.75	-9.0	-13.483%	44.443	-10.597	-19.254%	66.557	-6.453	-8.839%
random_word_swap	2.0	65.49	-1.26	-1.888%	51.868	-3.172	-5.762%	72.126	-0.884	-1.211%
corruption	severity		VQ.	A		GQ.	A		NLVF	₹
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	50.29	-16.46	-24.659%	31.881	-23.159	-42.077%	59.968	-13.042	-17.863%
typos	3.0	51.4	-15.35	-22.996%	34.306	-20.734	-37.671%	63.901	-9.109	-12.476%
keyboard	3.0	50.14	-16.61	-24.884%	31.857	-23.183	-42.120%	62.581	-10.429	-14.285%
spell_error	3.0	51.32	-15.43	-23.116%	34.616	-20.424	-37.108%	62.753	-10.257	-14.049%
random_char_insert	3.0	33.4	-33.35	-49.963%	21.259	-33.781	-61.375%	55.82	-17.19	-23.544%
random_char_replace	3.0	28.51	-38.24	-57.288%	18.771	-36.269	-65.896%	54.83	-18.18	-24.901%
random_char_swap	3.0	28.26	-38.49	-57.663%	18.588	-36.452	-66.228%	51.859	-21.151	-28.970%
random_char_delete	3.0	31.71	-35.04	-52.494%	21.021	-34.019	-61.808%	54.557	-18.453	-25.274%
random_word_insert		31./1								
	3.0	63.51	-3.24	-4.854%	41.628	-13.412	-24.367%	66.341	-6.669	-9.134%
random_word_delete	3.0 3.0				41.628 43.862	-13.412 -11.178		66.341 67.188	-6.669 -5.822	-9.134% -7.974%
random_word_delete swap_syn_word_emb		63.51 57.44 50.7	-3.24	-4.854%			-24.367%	67.188 59.61		
swap_syn_word_emb swap_syn_word_net	3.0 3.0 3.0	63.51 57.44 50.7 54.09	-3.24 -9.31 -16.05 -12.66	-4.854% -13.948% -24.045% -18.966%	43.862 36.039 39.323	-11.178 -19.001 -15.717	-24.367% -20.308% -34.522% -28.556%	67.188 59.61 64.375	-5.822 -13.4 -8.635	-7.974% -18.354% -11.827%
$swap_syn_word_emb$	3.0 3.0	63.51 57.44 50.7	-3.24 -9.31 -16.05	-4.854% -13.948% -24.045%	43.862 36.039	-11.178 -19.001	-24.367% -20.308% -34.522%	67.188 59.61	-5.822 -13.4	-7.974% -18.354%
swap_syn_word_emb swap_syn_word_net random_word_swap	3.0 3.0 3.0 3.0	63.51 57.44 50.7 54.09	-3.24 -9.31 -16.05 -12.66 -1.9	-4.854% -13.948% -24.045% -18.966% -2.846%	43.862 36.039 39.323	-11.178 -19.001 -15.717	-24.367% -20.308% -34.522% -28.556% -9.114%	67.188 59.61 64.375	-5.822 -13.4 -8.635	-7.974% -18.354% -11.827% -2.804%
swap_syn_word_emb swap_syn_word_net	3.0 3.0 3.0	63.51 57.44 50.7 54.09	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease	-4.854% -13.948% -24.045% -18.966% -2.846%	43.862 36.039 39.323	-11.178 -19.001 -15.717 -5.016 GQA Decrease	-24.367% -20.308% -34.522% -28.556% -9.114%	67.188 59.61 64.375 70.963	-5.822 -13.4 -8.635 -2.047	-7.974% -18.354% -11.827% -2.804%
swap_syn_word_emb swap_syn_word_net random_word_swap	3.0 3.0 3.0 3.0 3.0	63.51 57.44 50.7 54.09 64.85 Acc	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831%	43.862 36.039 39.323 50.024 Acc 26.88	-11.178 -19.001 -15.717 -5.016 GQA Decrease	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162%	67.188 59.61 64.375 70.963 CIDer 56.854	-5.822 -13.4 -8.635 -2.047 NLVF Decrease	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos	3.0 3.0 3.0 3.0 3.0 severity 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266%	43.862 36.039 39.323 50.024 Acc 26.88 27.54	-11.178 -19.001 -15.717 -5.016 GQA Decrease -28.16 -27.5	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio -22.129% -17.922%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard	3.0 3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298	-11.178 -19.001 -15.717 -5.016 GQA Decrease -28.16 -27.5 -29.742	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio -22.129% -17.922% -19.101%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error	3.0 3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518	-11.178 -19.001 -15.717 -5.016 GQ/Decrease -28.16 -27.5 -29.742 -26.522	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29	-7.974% -18.354% -11.827% -2.804% Represe Ratio -22.129% -17.922% -19.101% -19.573%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -58.142%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145	-11.178 -19.001 -15.717 -5.016 GQ/ Decrease -28.16 -27.5 -29.742 -26.522 -35.895	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -58.142% -64.464%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427	-11.178 -19.001 -15.717 -5.016 GQ/ Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902	-7.974% -18.354% -11.827% -2.804% C Decrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.2	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.55	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -58.142% -64.464% -60.749%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047	-11.178 -19.001 -15.717 -5.016 Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613 -36.993	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337% -67.210%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514	-5.822 -13.4 -8.635 -2.047 Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496	-7.974% -18.354% -11.827% -2.804% Corerase Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260% -29.442%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.2 26.09	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.55 -40.66	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -58.142% -64.464%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047 18.97	-11.178 -19.001 -15.717 -5.016 GQ2 Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613 -36.993 -36.07	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514 53.222	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496 -19.788	-7.974% -18.354% -11.827% -2.804% C Decrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.2 26.09 59.59	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.55 -40.66 -7.16	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -58.142% -64.464% -60.749% -60.914% -10.727%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047 18.97 37.963	-11.178 -19.001 -15.717 -5.016 GQ/ Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613 -36.993 -36.07 -17.077	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337% -67.210% -65.535% -31.026%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514 53.222 65.093	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496 -19.788 -7.917	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260% -29.442% -27.103% -10.844%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.09 59.59 50.03	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.55 -40.66 -7.16 -16.72	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -64.464% -60.749% -60.914% -10.727% -25.049%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047 18.97 37.963 37.987	-11.178 -19.001 -15.717 -5.016 GQ/ Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613 -36.993 -36.07 -17.077 -17.053	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337% -67.210% -65.535% -31.026% -30.983%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514 53.222 65.093 66.094	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496 -19.788 -7.917 -6.97	-7.974% -18.354% -11.827% -2.804% Example 22.129% -17.922% -19.101% -19.573% -25.569% -27.260% -29.442% -27.103% -10.844% -9.547%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap arndom_char_delete random_word_insert random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.2 26.09 59.59 59.03 46.8	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.65 -40.66 -7.16 -16.72 -19.95	-4.854% -13.948% -24.045% -18.966% -2.846% -2.846% -35.266% -39.326% -35.581% -58.142% -64.464% -60.749% -60.914% -10.727% -25.049% -29.888%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047 18.97 37.963 37.987 32.994	-11.178 -19.001 -15.717 -5.016 GQ2 Decrease -28.16 -27.5 -29.742 -35.895 -37.613 -36.993 -36.07 -17.077 -17.073	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337% -67.210% -65.535% -31.026% -30.983% -40.054%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514 53.222 65.093 66.04 57.485	-5.822 -13.4 -8.635 -2.047 Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496 -19.788 -7.917 -6.97 -15.525	-7.974% -18.354% -11.827% -2.804% R Decrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260% -29.442% -9.547% -9.547% -21.264%
swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	63.51 57.44 50.7 54.09 64.85 Acc 43.5 43.21 40.5 43.0 27.94 23.72 26.09 59.59 50.03	-3.24 -9.31 -16.05 -12.66 -1.9 VQ. Decrease -23.25 -23.54 -26.25 -23.75 -38.81 -43.03 -40.55 -40.66 -7.16 -16.72	-4.854% -13.948% -24.045% -18.966% -2.846% A Decrease Ratio -34.831% -35.266% -39.326% -35.581% -64.464% -60.749% -60.914% -10.727% -25.049%	43.862 36.039 39.323 50.024 Acc 26.88 27.54 25.298 28.518 19.145 17.427 18.047 18.97 37.963 37.987	-11.178 -19.001 -15.717 -5.016 GQ/ Decrease -28.16 -27.5 -29.742 -26.522 -35.895 -37.613 -36.993 -36.07 -17.077 -17.053	-24.367% -20.308% -34.522% -28.556% -9.114% A Decrease Ratio -51.162% -49.963% -54.037% -48.187% -65.217% -68.337% -67.210% -65.535% -31.026% -30.983%	67.188 59.61 64.375 70.963 CIDer 56.854 59.925 59.064 58.72 54.342 53.108 51.514 53.222 65.093 66.094	-5.822 -13.4 -8.635 -2.047 NLVF Decrease -16.156 -13.085 -13.946 -14.29 -18.668 -19.902 -21.496 -19.788 -7.917 -6.97	-7.974% -18.354% -11.827% -2.804% Recrease Ratio -22.129% -17.922% -19.101% -19.573% -25.569% -27.260% -29.442% -27.103% -10.844% -9.547%

Table 28: Performance and decrease ratio of Full Finetuning on CLIP-BART against text corruptions given severity 5.

			VQ	A		GQ/	Λ		NLVF	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	40.23	-26.52	-39.730%	23.66	-31.38	-57.012%	54.17	-18.84	-25.805%
punctuation	5.0	65.94	-0.81	-1.213%	54.309	-0.731	-1.328%	72.355	-0.655	-0.897%
typos	5.0	30.35	-36.4	-54.532%	19.979	-35.061	-63.700%	53.136	-19.874	-27.221%
keyboard	5.0	27.34	-39.41	-59.041%	18.055	-36.985	-67.196%	50.854	-22.156	-30.346%
spell_error	5.0	36.24	-30.51	-45.708%	24.257	-30.783	-55.929%	55.691	-17.319	-23.721%
random_char_insert	5.0	23.51	-43.24	-64.779%	17.849	-37.191	-67.572%	52.591	-20.419	-27.968%
random_char_replace	5.0	19.82	-46.93	-70.307%	16.092	-38.948	-70.764%	51.974	-21.036	-28.813%
random_char_swap	5.0	25.33	-41.42	-62.052%	18.922	-36.118	-65.621%	52.591	-20.419	-27.968%
random_char_delete	5.0	22.22	-44.53	-66.712%	18.095	-36.945	-67.124%	51.615	-21.395	-29.305%
to_passive	5.0	62.82	-3.93	-5.888%	51.224	-3.816	-6.932%	70.131	-2.879	-3.944%
tense	5.0	65.81	-0.94	-1.408%	54.826	-0.214	-0.389%	73.044	0.034	0.047%
to_formal	5.0	66.24	-0.51	-0.764%	53.935	-1.105	-2.007%	72.47	-0.54	-0.739%
to_casual	5.0	63.58	-3.17	-4.749%	51.566	-3.474	-6.311%	71.107	-1.903	-2.607%
to_active	5.0	64.88	-1.87	-2.801%	53.26	-1.78	-3.235%	72.384	-0.626	-0.857%
double_denial	5.0	66.63	-0.12	-0.180%	55.033	-0.007	-0.013%	73.016	0.006	0.008%
insert_adv	5.0	61.67	-5.08	-7.610%	49.61	-5.43	-9.865%	70.547	-2.463	-3.374%
append_irr	5.0	60.56	-6.19	-9.273%	47.194	-7.846	-14.256%	66.571	-6.439	-8.819%
random_word_insert	5.0	55.76	-10.99	-16.464%	32.0	-23.04	-41.860%	63.356	-9.654	-13.223%
drop_nn	5.0	43.85	-22.9	-34.307%	30.919	-24.121	-43.824%	60.672	-12.338	-16.899%
drop_rand_one_nn	5.0	57.5	-9.25	-13.858%	45.476	-9.564	-17.376%	71.049	-1.961	-2.686%
drop_vb	5.0	58.63	-8.12	-12.165%	40.356	-14.684	-26.678%	68.451	-4.559	-6.244%
drop_vb_nn	5.0	43.14	-23.61	-35.371%	27.373	-27.667	-50.267%	57.858	-15.152	-20.753%
only_nn	5.0	32.64	-34.11	-51.101%	20.234	-34.806	-63.238%	52.16	-20.85	-28.557%
only_vb	5.0	51.97	-14.78	-22.142%	39.831	-15.209	-27.632%	65.265	-7.745	-10.608%
only_vb_nn	5.0	37.61	-29.14	-43.655%	21.848	-33.192	-60.306%	54.084	-18.926	-25.923%
drop_rand_one_vb	5.0	63.63	-3.12	-4.674%	47.257	-7.783	-14.140%	71.035	-1.975	-2.705%
drop_first	5.0	56.8	-9.95	-14.906%	39.744	-15.296	-27.791%	70.748	-2.262	-3.098%
drop_last	5.0	54.22	-12.53	-18.772%	45.548	-9.492	-17.246%	69.068	-3.942	-5.399%
drop_first_and_last	5.0	40.6	-26.15	-39.176%	31.436	-23.604	-42.885%	65.294	-7.716	-10.569%
shuffle_order	5.0	59.93	-6.82	-10.217%	41.724	-13.316	-24.194%	68.408	-4.602	-6.303%
random_word_delete	5.0	42.58	-24.17	-36.210%	31.849	-23.191	-42.134%	63.959	-9.051	-12.397%
swap_syn_word_emb	5.0	46.06	-20.69	-30.996%	32.0	-23.04	-41.860%	57.916	-15.094	-20.674%
swap_syn_word_net	5.0	46.31	-20.44	-30.622%	35.165	-19.875	-36.111%	58.619	-14.391	-19.711%
back_trans	5.0	62.77	-3.98	-5.963%	50.549	-4.491	-8.160%	71.781	-1.229	-1.683%
random_word_swap	5.0	63.54	-3.21	-4.809%	47.917	-7.123	-12.942%	70.69	-2.32	-3.177%
nonsense	5.0	0.0	-66.75	-100.000%	17.038	-38.002	-69.045%	51.227	-21.783	-29.835%

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Table 29: Performance and decrease ratio of Half-shared Adapters on CLIP-BART against text corruptions given severity 1 to 4.

corruption severity Acc Decrease Decrease Ratio Acc Decrease Decrease Ratio CIDer Decrease Decrease Ratio ocr 1.0 55.06 -10.14 -15.552% 42.662 -10.298 -19.445% 55.304 -14.726 typos 1.0 56.41 -8.79 -13.482% 45.015 -7.945 -15.002% 67.963 -2.067 keyboard 1.0 55.93 -9.27 -14.218% 45.031 -7.929 -14.972% 67.389 -2.641 random_char_insert 1.0 47.95 -17.25 -26.457% 32.644 -20.316 -38.360% 60.126 -9.904 random_char_gelace 1.0 41.02 -24.18 -37.086% 26.515 -26.445 -49.935% 55.476 -14.554 random_char_gelace 1.0 49.17 -16.03 -24.586% 34.107 -18.853 -35.598% 61.131 -8.899 random_char_gelace 1.0 65.15 -0.05 -0.18 -0.276% 51	-14.726 -21.029% -2.067 -2.951% -2.698 -3.853% -2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -16.678 -23.816% -19.176 -27.383% -14.009 -20.004% -1.349 -1.926% -1.349 -1.926% -1.966 -2.808% -8.239 -11.765% -4.062 -5.800%
ocr 1.0 55.06 -10.14 -15.552% 42.662 -10.298 -19.445% 55.304 -14.726 typos 1.0 56.41 -8.79 -13.482% 45.015 -7.945 -15.002% 67.963 -2.067 keyboard 1.0 55.45 -9.75 -14.954% 43.91 -9.05 -17.088% 67.332 -2.698 spell error 1.0 55.89 -9.27 -14.218% 45.015 -7.945 -19.72% 67.389 -2.64 random_char_insert 1.0 51.8 -13.4 -20.552% 36.087 -16.873 -31.860% 62.064 -7.966 random_char_swap 1.0 41.02 -24.18 -37.080% 26.515 26.445 -49.935% 55.476 -14.554 random_har_delete 1.0 45.15 -0.05 -0.0777% 51.328 -16.353 -35.598% 61.131 -8.899 random_word_swap 1.0 65.02 -0.18 -0.276% 51.813 -1.147 -2.16	-14.726 -21.029% -2.067 -2.951% -2.698 -3.853% -2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -14.683 -20.967% -14.683 -20.967% -11.766 -2.3816% -19.176 -2.383% -14.009 -20.004% -1.349 -1.926% -1.9166 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
typos	-2.067 -2.951% -2.698 -3.853% -2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -14.683 -20.967% -14.683 -2.967% -11.766 -2.3816% -19.176 -2.7383% -14.009 -2.0004% -1.349 -1.926% -1.966 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
typos	-2.067 -2.951% -2.698 -3.853% -2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -14.683 -20.967% -14.683 -20.967% -11.766 -27.383% -11.765% -8.239 -11.765% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
Reyboard 1.0 55.45 9.75 -14.918% 43.91 -9.05 -17.088% 67.332 -2.698 spell_error 1.0 55.93 -9.27 -14.218% 45.031 -7.929 -14.972% 67.389 -2.641 random_char_insert 1.0 51.8 -13.4 -20.552% 36.087 -16.873 -31.860% 62.064 -7.966 random_char_pelace 1.0 47.95 -17.25 -26.457% 32.644 -20.316 -38.360% 60.126 -9.904 random_char_swap 1.0 41.02 -24.18 -37.086% 26.515 -26.445 -49.935% 55.476 -14.554 random_char_delete 1.0 49.17 -16.03 -24.586% 34.107 -18.853 -35.598% 61.131 -8.899 random_word_insert 1.0 65.15 -0.05 -0.077% 51.328 -1.632 -3.082% 69.714 -0.316 random_word_delete 1.0 65.02 -0.18 -0.276% 51.813 -1.147 -2.166% 69.815 -0.215 swap_syn_word_emb 1.0 55.38 -9.82 -15.061% 45.659 -7.301 -13.786% 65.738 -4.292 random_word_swap 1.0 65.1 -0.1 -0.153% 52.163 -0.797 -1.506% 69.714 -0.316	-2.698 -3.853% -2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -16.678 -23.816% -19.176 -27.383% -11.765 -1.349 -1.926% -1.349 -1.926% -1.966 -2.808% -1.947 -1.353%
Spell_error	-2.641 -3.771% -7.966 -11.375% -9.904 -14.142% -9.904 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -0.316 -0.451% Pocrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -14.683 -20.967% -11.6678 -23.816% -19.176 -27.383% -14.009 -20.004% -1.349 -1.926% -1.349 -1.926% -1.349 -1.926% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
random_char_insert random_char_pelace random_char_pelace random_char_pelace random_char_pelace random_char_pelace random_char_swap random_swap random_swap random_swap random_word_insert random_word_swap random_char_random_word_swap random_char_swap random_char_swap random_char_swap random_char_swap random_char_swap random_char_swap random_char_swap random_char_swap random_word_delete random_word_swap random_word_syss random_word_swap random_word_syss r	-7.966 -11.375% -9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -14.683 -20.967% -14.683 -20.967% -14.683 -20.967% -11.765 -2.3816% -19.176 -27.383% -14.009 -20.004% -1.349 -1.926% -1.966 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
random_char_replace	-9.904 -14.142% -14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -16.678 -23.816% -19.176 -27.383% -19.176 -27.383% -19.1966 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
random_char_swap random_char_swap random_char_delete 1.0 41.02 −24.18 −37.086% 26.515 −26.445 −49.935% 55.476 −14.54 −14.554 random_char_delete 1.0 49.17 −16.03 −24.586% 34.107 −18.853 −35.598% 61.131 −8.899 random_word_lender random_word_delete 1.0 65.02 −0.18 −0.276% 51.318 −1.147 −2.166% 69.815 −0.215 swap_syn_word_net random_word_swap 1.0 57.86 −7.34 −11.258% 45.54 −7.42 −14.011% 68.006 −2.024 random_word_swap 1.0 65.1 −0.1 −0.153% 52.163 −0.797 −1.506% 69.714 −0.316 verity typos 2.0 54.41 −10.79 −16.549% 38.822 −14.138 −26.696% 63.313 −6.717 typos 2.0 54.41 −10.79 −16.549% 38.822 −14.138 −26.696% 63.313 −6.717 typos 2.0 55.42 <td< td=""><td>-14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -0.316 -0.451% -0.316 -0.451% -</td></td<>	-14.554 -20.783% -8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -0.316 -0.451% -0.316 -0.451% -
random_char_delete	-8.899 -12.707% -0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -14.683 -20.967% -16.678 -23.816% -19.176 -27.383% -14.099 -20.004% -1.349 -1.926% -1.966 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
random_word_delete	-0.316 -0.451% -0.215 -0.307% -4.292 -6.128% -2.024 -2.890% -0.316 -0.451% NLVR Decrease Decrease Ratio -6.717 -9.592% -5.196 -7.419% -5.856 -8.362% -5.239 -7.481% -14.683 -20.967% -16.678 -23.816% -19.176 -27.383% -11.926% -1.349 -1.926% -1.9966 -2.808% -8.239 -11.765% -4.062 -5.800% -0.947 -1.353%
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VQA GQA NLVI	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864%
	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803%
Continuon severny Acc Decrease Decrease Ratio Acc Decrease Ratio CIDer Decrease	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803%
ocr 4.0 43.02 -22.18 -34.018% 26.276 -26.684 -50.385% 55.863 -14.167	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803%
typos 4.0 42.01 -23.19 -35.567% 27.588 -25.372 -47.908% 57.672 -12.358	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803%
	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229%
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random char insert 4.0 30.45 -34.75 -53.298% 17.554 -35.406 -66.853% 50.452 -19.578	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -13.148 -18.774% -12.875 -18.385%
	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -13.148 -18.774% -13.148 -18.774% -12.875 -18.385% -19.578 -27.956%
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random_char_replace 4.0 28.05 -37.15 -56.979% 15.145 -37.815 -71.402% 50.438 -19.592 random_char_swap 4.0 26.75 -38.45 -58.972% 15.869 -37.091 -70.036% 50.065 -19.965	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -12.358 -17.647% -13.148 -18.774% -12.875 -18.385% -19.578 -27.956% -19.592 -27.977% -19.965 -28.510%
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random_char_replace 4.0 28.05 -37.15 -56.979% 15.145 -37.815 -71.402% 50.438 -19.592 random_char_swap 4.0 26.75 -38.45 -58.972% 15.869 -37.091 -70.036% 50.065 -19.965 random_char_delete 4.0 29.76 -35.44 -54.356% 17.936 -35.024 -66.133% 51.385 -18.645 random_word_insert 4.0 61.26 -3.94 -6.043% 41.724 -11.236 -21.217% 67.217 -2.813 random_word_delete 4.0 50.83 -14.37 -22.040% 35.928 -17.032 -32.160% 64.217 -5.813	-16.98 -24.247% -17.37 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -13.148 -18.774% -13.148 -18.774% -12.875 -18.385% -19.578 -27.956% -19.592 -27.977% -19.965 -28.510% -18.645 -26.624% -2.813 -4.017% -5.813 -8.301%
random_char_replace 4.0 28.05 -37.15 -56.979% 15.145 -37.815 -71.402% 50.438 -19.592 random_char_swap 4.0 26.75 -38.45 -58.972% 15.869 -37.091 -70.036% 50.065 -19.965 random_char_delete 4.0 29.76 -35.44 -54.356% 17.936 -35.024 -66.133% 51.385 -18.645 random_word_insert 4.0 61.26 -3.94 -60.43% 41.724 -11.236 -21.217% 67.217 -2.813 random_word_delete 4.0 50.83 -14.37 -22.040% 35.928 -17.032 -32.160% 64.217 -5.813 swap_syn_word_emb 4.0 46.53 -18.67 -28.635% 34.258 -18.702 -35.313% 57.959 -12.071	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -13.148 -18.774% -13.148 -18.774% -19.575 -18.385% -19.578 -27.956% -19.592 -27.977% -19.965 -28.510% -18.645 -26.624% -2.813 -4.017% -5.813 -8.301% -12.071 -17.237%
random_char_replace 4.0 28.05 -37.15 -56.979% 15.145 -37.815 -71.402% 50.438 -19.592 random_char_swap 4.0 26.75 -38.45 -58.972% 15.869 -37.091 -70.036% 50.065 -19.965 random_char_delete 4.0 29.76 -35.44 -54.356% 17.936 -35.024 -66.133% 51.385 -18.645 random_word_insert 4.0 61.26 -3.94 -6.043% 41.724 -11.236 -21.217% 67.217 -2.813 random_word_delete 4.0 50.83 -14.37 -22.040% 35.928 -17.032 -32.160% 64.217 -5.813	-16.98 -24.247% -1.737 -2.480% -4.536 -6.477% -11.109 -15.864% -7.464 -10.658% -1.263 -1.803% NLVR Decrease Decrease Ratio -14.167 -20.229% -12.358 -17.647% -13.148 -18.774% -12.875 -18.385% -19.578 -27.956% -19.592 -27.977% -19.965 -28.510% -18.645 -26.624% -2.813 -4.017% -5.813 -8.301% -12.071 -17.237% -10.392 -14.839%

Table 30: Performance and decrease ratio of Half-shared Adapters on CLIP-BART against text corruptions given severity 5.

communican	severity		VQ.	A		GQ/	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	39.61	-25.59	-39.248%	23.644	-29.316	-55.354%	53.337	-16.693	-23.837%
punctuation	5.0	64.58	-0.62	-0.951%	51.63	-1.33	-2.512%	69.628	-0.402	-0.574%
typos	5.0	29.71	-35.49	-54.433%	19.908	-33.052	-62.410%	51.687	-18.343	-26.194%
keyboard	5.0	27.36	-37.84	-58.037%	18.986	-33.974	-64.151%	50.61	-19.42	-27.731%
spell_error	5.0	34.42	-30.78	-47.209%	24.503	-28.457	-53.733%	54.457	-15.573	-22.238%
random_char_insert	5.0	28.04	-37.16	-56.994%	16.147	-36.813	-69.510%	49.677	-20.353	-29.063%
random_char_replace	5.0	26.58	-38.62	-59.233%	13.54	-39.42	-74.434%	50.079	-19.951	-28.489%
random_char_swap	5.0	26.08	-39.12	-60.000%	16.227	-36.733	-69.360%	51.112	-18.918	-27.014%
random_char_delete	5.0	27.36	-37.84	-58.037%	16.6	-36.36	-68.655%	51.184	-18.846	-26.911%
to_passive	5.0	62.61	-2.59	-3.972%	45.937	-7.023	-13.260%	67.159	-2.871	-4.099%
tense	5.0	64.41	-0.79	-1.212%	52.608	-0.352	-0.665%	69.7	-0.33	-0.471%
to_formal	5.0	64.81	-0.39	-0.598%	52.123	-0.837	-1.581%	69.585	-0.445	-0.635%
to_casual	5.0	62.36	-2.84	-4.356%	48.171	-4.789	-9.042%	68.537	-1.493	-2.131%
to_active	5.0	63.44	-1.76	-2.699%	50.143	-2.817	-5.319%	69.327	-0.703	-1.004%
double_denial	5.0	65.15	-0.05	-0.077%	52.965	0.005	0.010%	70.016	-0.014	-0.020%
insert_adv	5.0	62.0	-3.2	-4.908%	50.294	-2.666	-5.034%	68.911	-1.119	-1.598%
append_irr	5.0	61.15	-4.05	-6.212%	48.37	-4.59	-8.667%	64.102	-5.928	-8.465%
random_word_insert	5.0	58.49	-6.71	-10.291%	37.407	-15.553	-29.368%	65.566	-4.464	-6.374%
drop_nn	5.0	45.44	-19.76	-30.307%	32.644	-20.316	-38.360%	63.801	-6.229	-8.895%
drop_rand_one_nn	5.0	57.06	-8.14	-12.485%	44.872	-8.088	-15.272%	68.667	-1.363	-1.947%
drop_vb	5.0	59.61	-5.59	-8.574%	38.289	-14.671	-27.702%	67.231	-2.799	-3.997%
drop_vb_nn	5.0	46.1	-19.1	-29.294%	22.619	-30.341	-57.291%	60.801	-9.229	-13.179%
only_nn	5.0	34.27	-30.93	-47.439%	12.22	-40.74	-76.926%	56.193	-13.837	-19.758%
only_vb	5.0	52.86	-12.34	-18.926%	39.005	-13.955	-26.351%	65.337	-4.693	-6.702%
only_vb_nn	5.0	44.08	-21.12	-32.393%	30.522	-22.438	-42.369%	58.605	-11.425	-16.315%
drop_rand_one_vb	5.0	63.06	-2.14	-3.282%	46.112	-6.848	-12.930%	68.293	-1.737	-2.480%
drop_first	5.0	60.34	-4.86	-7.454%	43.187	-9.773	-18.454%	68.609	-1.421	-2.029%
drop_last	5.0	54.14	-11.06	-16.963%	46.08	-6.88	-12.990%	67.547	-2.483	-3.546%
drop_first_and_last	5.0	46.95	-18.25	-27.991%	34.68	-18.28	-34.517%	66.413	-3.617	-5.165%
shuffle_order	5.0	58.03	-7.17	-10.997%	40.698	-12.262	-23.153%	64.791	-5.239	-7.481%
random_word_delete	5.0	45.05	-20.15	-30.905%	30.243	-22.717	-42.894%	62.523	-7.507	-10.719%
swap_syn_word_emb	5.0	45.89	-19.31	-29.617%	33.026	-19.934	-37.640%	57.442	-12.588	-17.975%
swap_syn_word_net	5.0	47.68	-17.52	-26.871%	35.292	-17.668	-33.361%	57.93	-12.1	-17.278%
back_trans	5.0	61.61	-3.59	-5.506%	49.61	-3.35	-6.325%	68.81	-1.22	-1.742%
random_word_swap	5.0	61.69	-3.51	-5.383%	45.937	-7.023	-13.260%	67.762	-2.268	-3.238%
nonsense	5.0	11.67	-53.53	-82.101%	7.457	-45.503	-85.919%	51.285	-18.745	-26.768%

Table 31: Performance and decrease ratio of Hyperformer on CLIP-BART against text corruptions given severity 1 to 4.

	10 1.		VQ.	A		GQA	<u> </u>		NLVF	 !
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.68	-10.7	-16.366%	42.821	-9.699	-18.468%	56.94	-15.27	-21.147%
typos	1.0	56.24	-9.14	-13.980%	45.047	-7.473	-14.229%	69.772	-2.438	-3.377%
keyboard	1.0	55.04	-10.34	-15.815%	43.95	-8.57	-16.318%	69.198	-3.012	-4.172%
spell_error	1.0	55.72	-9.66	-14.775%	44.753	-7.767	-14.789%	69.241	-2.969	-4.112%
random_char_insert	1.0	51.13	-14.25	-21.796%	35.983	-16.537	-31.486%	63.815	-8.395	-11.626%
random_char_replace	1.0	47.55	-17.83	-27.271%	31.825	-20.695	-39.403%	62.007	-10.203	-14.130%
random_char_swap	1.0	41.02	-24.36	-37.259%	26.244	-26.276	-50.030%	57.04	-15.17	-21.008%
random_char_delete	1.0	49.05	-16.33	-24.977%	34.449	-18.071	-34.408%	63.241	-8.969	-12.421%
random_word_insert	1.0	65.32	-0.06	-0.092%	50.636	-1.884	-3.587%	71.652	-0.558	-0.773%
random_word_delete	1.0	65.21	-0.17	-0.260%	51.36	-1.16	-2.210%	71.681	-0.529	-0.733%
swap_syn_word_emb	1.0	55.18	-10.2	-15.601%	45.5	-7.02	-13.366%	67.317	-4.893	-6.776%
swap_syn_word_net	1.0	57.82	-7.56	-11.563%	46.128	-6.392	-12.170%	69.427	-2.783	-3.854%
random_word_swap	1.0	65.28	-0.1	-0.153%	51.725	-0.795	-1.513%	71.781	-0.429	-0.594%
corruption	severity		VQ.	A		GQ/			NLVF	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	53.7	-11.68	-17.865%	39.307	-13.213	-25.159%	65.308	-6.902	-9.558%
typos	2.0	54.86	-10.52	-16.091%	41.048	-11.472	-21.843%	66.169	-6.041	-8.366%
keyboard	2.0	54.58	-10.8	-16.519%	40.269	-12.251	-23.327%	66.557	-5.653	-7.829%
spell_error	2.0	55.08	-10.3	-15.754%	42.217	-10.303	-19.618%	65.624	-6.586	-9.121%
random_char_insert	2.0	41.12	-24.26	-37.106%	25.529	-26.991	-51.392%	57.744	-14.466	-20.034%
random_char_replace	2.0	36.76	-28.62	-43.775%	22.571	-29.949	-57.024%	55.935	-16.275	-22.538%
random_char_swap	2.0	31.93	-33.45	-51.162%	19.868	-32.652	-62.171%	52.82	-19.39	-26.852%
random_char_delete	2.0	38.54	-26.84	-41.052%	25.401	-27.119	-51.635%	56.768	-15.442	-21.385%
random_word_insert	2.0	63.6	-1.78	-2.723%	46.947	-5.573	-10.611%	70.26	-1.95	-2.701%
random_word_delete	2.0	59.43	-5.95	-9.101%	46.454	-6.066	-11.550%	68.911	-3.299	-4.569%
swap_syn_word_emb	2.0	54.64	-10.74	-16.427%	42.391	-10.129	-19.285%	62.466	-9.744	-13.494%
swap_syn_word_net	2.0	57.61	-7.77	-11.884%	44.292	-8.228	-15.667%	67.002	-5.208	-7.213%
random_word_swap	2.0	64.03	-1.35	-2.065%	49.428	-3.092	-5.888%	71.193	-1.017	-1.409%
corruption	severity	A	VQ.		A	GQ/		CIDer	NLVF	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio		Decrease	Decrease Ratio
ocr	3.0	49.21	-16.17	-24.732%	32.509	-20.011	-38.101%	61.648	-10.562	-14.627%
typos	3.0	50.18	-15.2	-23.249%	34.958	-17.562	-33.439%	63.528	-8.682	-12.023%
keyboard	3.0	48.68	-16.7	-25.543%	33.09	-19.43	-36.996%	62.308	-9.902	-13.713%
spell_error	3.0	50.07	-15.31	-23.417%	35.165	-17.355	-33.045%	62.466	-9.744	-13.494%
random_char_insert	3.0	33.75	-31.63	-48.379%	21.506	-31.014	-59.052%	54.299	-17.911	-24.804%
random_char_replace	3.0	30.61	-34.77	-53.181%	19.9	-32.62	-62.110%	51.687	-20.523	-28.422%
random_char_swap	3.0	28.17	-37.21	-56.913%	18.031	-34.489	-65.667%	50.954	-21.256	-29.436%
random_char_delete	3.0	32.97	-32.41	-49.572%	20.822	-31.698	-60.354%	53.997	-18.213	-25.222%
random_word_insert	3.0	61.46	-3.92	-5.996%	42.439	-10.081	-19.194%	67.949	-4.261	-5.901%
random_word_delete	3.0	56.52	-8.86	-13.552%	42.924	-9.596	-18.271%	67.059	-5.151	-7.133%
swap_syn_word_emb	3.0	50.61	-14.77	-22.591%	37.001	-15.519	-29.549%	60.299	-11.911	-16.496%
swap_syn_word_net	3.0	53.92	-11.46	-17.528%	40.022	-12.498	-23.796%	63.37	-8.84	-12.242%
random_word_swap	3.0	63.19	-2.19	-3.350%	48.267	-4.253	-8.098%	70.418	-1.792	-2.482%
corruption	coverity		VQ.	A		GQ.	A		NLVF	<u> </u>
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	49.21	-16.17	-24.732%	32.509	-20.011	-38.101%	61.648	-10.562	-14.627%
typos	3.0	50.18	-15.2	-23.249%	34.958	-17.562	-33.439%	63.528	-8.682	-12.023%
keyboard	3.0	48.68	-16.7	-25.543%	33.09	-19.43	-36.996%	62.308	-9.902	-13.713%
spell_error	3.0	50.07	-15.31	-23.417%	35.165	-17.355	-33.045%	62.466	-9.744	-13.494%
random_char_insert	3.0	33.75	-31.63	-48.379%	21.506	-31.014	-59.052%	54.299	-17.911	-24.804%
random_char_replace	3.0	30.61	-34.77	-53.181%	19.9	-32.62	-62.110%	51.687	-20.523	-28.422%
random_char_swap	3.0	28.17	-37.21	-56.913%	18.031	-34.489	-65.667%	50.954	-21.256	-29.436%
random_char_delete	3.0	32.97	-32.41	-49.572%	20.822	-31.698	-60.354%	53.997	-18.213	-25.222%
random_word_insert	3.0	61.46	-3.92	-5.996%	42.439	-10.081	-19.194%	67.949	-4.261	-5.901%
random_word_delete	3.0	56.52	-8.86	-13.552%	42.924	-9.596	-18.271%	67.059	-5.151	-7.133%
swap_syn_word_emb	3.0	50.61	-14.77	-22.591%	37.001	-15.519	-29.549%	60.299	-11.911	-16.496%
swap_syn_word_net	3.0	53.92	-11.46	-17.528%	40.022	-12.498	-23.796%	63.37	-8.84	-12.242%
random_word_swap	3.0	63.19	-2.19	-3.350%	48.267	-4.253	-8.098%	70.418	-1.792	-2.482%

Table 32: Performance and decrease ratio of Hyperformer on CLIP-BART against text corruptions given severity 5.

corruption	severity		VQ.			GQ.			NLVF	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	39.58	-25.8	-39.462%	24.948	-27.572	-52.497%	54.729	-17.481	-24.208%
punctuation	5.0	64.57	-0.81	-1.239%	51.304	-1.216	-2.316%	71.509	-0.701	-0.971%
typos	5.0	29.88	-35.5	-54.298%	19.924	-32.596	-62.065%	51.73	-20.48	-28.362%
keyboard	5.0	27.13	-38.25	-58.504%	18.898	-33.622	-64.017%	50.969	-21.241	-29.416%
spell_error	5.0	34.74	-30.64	-46.864%	24.67	-27.85	-53.027%	55.031	-17.179	-23.791%
random_char_insert	5.0	27.42	-37.96	-58.061%	18.747	-33.773	-64.305%	51.184	-21.026	-29.118%
random_char_replace	5.0	25.64	-39.74	-60.783%	18.286	-34.234	-65.183%	50.165	-22.045	-30.529%
random_char_swap	5.0	25.53	-39.85	-60.951%	18.58	-33.94	-64.623%	51.242	-20.968	-29.038%
random_char_delete	5.0	27.21	-38.17	-58.382%	17.825	-34.695	-66.061%	51.572	-20.638	-28.581%
to_passive	5.0	62.96	-2.42	-3.701%	47.209	-5.311	-10.112%	68.882	-3.328	-4.609%
tense	5.0	64.51	-0.87	-1.331%	52.425	-0.095	-0.181%	72.14	-0.07	-0.097%
to_formal	5.0	64.84	-0.54	-0.826%	51.948	-0.572	-1.089%	71.681	-0.529	-0.733%
to_casual	5.0	62.6	-2.78	-4.252%	47.83	-4.69	-8.931%	70.174	-2.036	-2.820%
to_active	5.0	63.74	-1.64	-2.508%	50.223	-2.297	-4.374%	70.834	-1.376	-1.906%
double_denial	5.0	65.27	-0.11	-0.168%	52.504	-0.016	-0.030%	72.198	-0.012	-0.017%
insert_adv	5.0	62.02	-3.36	-5.139%	49.523	-2.997	-5.706%	70.949	-1.261	-1.747%
append_irr	5.0	61.82	-3.56	-5.445%	46.446	-6.074	-11.565%	66.083	-6.127	-8.485%
random_word_insert	5.0	54.55	-10.83	-16.565%	34.576	-17.944	-34.166%	62.179	-10.031	-13.892%
drop_nn	5.0	44.68	-20.7	-31.661%	33.567	-18.953	-36.088%	61.289	-10.921	-15.124%
drop_rand_one_nn	5.0	56.79	-8.59	-13.139%	44.641	-7.879	-15.001%	70.533	-1.677	-2.323%
drop_vb	5.0	58.74	-6.64	-10.156%	41.779	-10.741	-20.451%	68.437	-3.773	-5.225%
drop_vb_nn	5.0	44.4	-20.98	-32.089%	30.601	-21.919	-41.734%	57.471	-14.739	-20.411%
only_nn	5.0	31.7	-33.68	-51.514%	20.711	-31.809	-60.566%	50.911	-21.299	-29.495%
only_vb	5.0	50.58	-14.8	-22.637%	37.844	-14.676	-27.944%	65.164	-7.046	-9.757%
only_vb_nn	5.0	33.83	-31.55	-48.256%	22.794	-29.726	-56.600%	52.663	-19.547	-27.070%
drop_rand_one_vb	5.0	62.77	-2.61	-3.992%	47.822	-4.698	-8.946%	71.049	-1.161	-1.607%
drop_first	5.0	55.2	-10.18	-15.571%	44.848	-7.672	-14.607%	70.834	-1.376	-1.906%
drop last	5.0	53.48	-11.9	-18.201%	45.762	-6.758	-12.867%	68.911	-3.299	-4.569%
drop_first_and_last	5.0	41.86	-23.52	-35.974%	37.542	-14.978	-28.519%	66.097	-6.113	-8.465%
shuffle_order	5.0	57.24	-8.14	-12.450%	40.897	-11.623	-22.131%	68.179	-4.031	-5.583%
random word delete	5.0	44.82	-20.56	-31.447%	31.921	-20.599	-39.222%	63.083	-9.127	-12.639%
swap_syn_word_emb	5.0	46.01	-19.37	-29.627%	33.543	-18.977	-36.133%	58.576	-13.634	-18.881%
swap_syn_word_net	5.0	47.69	-17.69	-27.057%	36.294	-16.226	-30.896%	57.988	-14.222	-19.696%
back trans	5.0	61.92	-3.46	-5.292%	49.579	-2.941	-5.600%	71.207	-1.003	-1.389%
random word swap	5.0	61.94	-3.44	-5.262%	46.335	-6.185	-11.777%	70.102	-2.108	-2.919%
nonsense	5.0	8.62	-56.76	-86.816%	13.905	-38.615	-73.524%	51.801	-20.409	-28.263%

Table 33: Performance and decrease ratio of Multiple Adapters on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQA			NLVI	
	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.59	-10.71	-16.401%	41.747	-11.643	-21.807%	54.758	-14.652	-21.109%
typos	1.0	56.65	-8.65	-13.247%	43.457	-9.933	-18.605%	67.389	-2.021	-2.912%
keyboard	1.0	55.55	-9.75	-14.931%	42.272	-11.118	-20.824%	67.619	-1.791	-2.581%
spell_error	1.0	56.09	-9.21	-14.104%	44.021	-9.369	-17.548%	66.987	-2.423	-3.491%
random_char_insert	1.0	51.31	-13.99	-21.424%	35.681	-17.709	-33.168%	62.337	-7.073	-10.191%
random_char_replace	1.0	47.81	-17.49	-26.784%	32.183	-21.207	-39.721%	59.782	-9.628	-13.871%
random_char_swap	1.0	41.08	-24.22	-37.090%	26.045	-27.345	-51.217%	56.466	-12.944	-18.648%
random_char_delete	1.0	49.7	-15.6	-23.890%	33.209	-20.181	-37.800%	61.519	-7.891	-11.369%
random_word_insert	1.0	65.27	-0.03	-0.046%	49.825	-3.565	-6.677%	70.174	0.764	1.100%
random_word_delete	1.0	65.12	-0.18	-0.276%	50.453	-2.937	-5.501%	69.571	0.161	0.232%
swap_syn_word_emb	1.0	55.66	-9.64	-14.763%	44.188	-9.202	-17.235%	65.337	-4.073	-5.869%
swap_syn_word_net	1.0	58.23	-7.07	-10.827%	44.49	-8.9	-16.669%	67.375	-2.035	-2.932%
random_word_swap	1.0	65.21	-0.09	-0.138%	50.755	-2.635	-4.935%	70.044	0.634	0.914%
			VQ.	A		GQ.	4		NLVI	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	54.06	-11.24	-17.213%	38.122	-15.268	-28.597%	63.227	-6.183	-8.908%
typos	2.0	55.31	-9.99	-15.299%	39.959	-13.431	-25.157%	64.49	-4.92	-7.089%
keyboard	2.0	54.76	-10.54	-16.141%	38.774	-14.616	-27.376%	63.844	-5.566	-8.019%
spell_error	2.0	55.47	-9.83	-15.054%	41.278	-12.112	-22.685%	64.605	-4.805	-6.923%
random_char_insert	2.0	41.08	-24.22	-37.090%	25.863	-27.527	-51.559%	56.423	-12.987	-18.710%
random_char_replace	2.0	36,94	-28.36	-43.430%	22.786	-30.604	-57.322%	54.902	-14.508	-20.902%
random_char_swap	2.0	32.02	-33.28	-50.965%	20.075	-33.315	-62.400%	52.002	-17.408	-25.080%
random char delete	2.0	38.7	-26.6	-40.735%	24.614	-28.776	-53.897%	56.495	-12.915	-18.607%
random_word_insert	2.0	64.55	-0.75	-1.149%	46.041	-7.349	-13.765%	69.356	-0.054	-0.078%
random_word_delete	2.0	60.42	-4.88	-7.473%	45.111	-8.279	-15.508%	67.863	-1.547	-2.229%
swap_syn_word_emb	2.0	54.89	-10.41	-15.942%	41.445	-11.945	-22.372%	61.935	-7.475	-10.770%
swap_syn_word_net	2.0	57.6	-7.7	-11.792%	42.495	-10.895	-20.407%	64.432	-4.978	-7.171%
random word swap	2.0	64.07	-1.23	-1.884%	48.45	-4.94	-9.253%	69.198	-0.212	-0.306%
Tandom_word_swap	2.0	04.07			70.73			07.170		
corruption	severity	A 00	VQ. Decrease		1 00	GQ/		CIDer	NLVI	
		Acc		Decrease Ratio	Acc	Decrease	Decrease Ratio		Decrease	Decrease Ratio
ocr	3.0	49.47	-15.83	-24.242%	31.086	-22.304	-41.776%	58.418	-10.992	-15.836%
typos	3.0	50.77	-14.53	-22.251%	33.249	-20.141	-37.725%	61.806	-7.604	-10.956%
keyboard	3.0	49.31	-15.99	-24.487%	31.865	-21.525	-40.316%	60.227	-9.183	-13.230%
spell_error	3.0	50.5	-14.8	-22.665%	34.719	-18.671	-34.970%	61.676	-7.734	-11.142%
random_char_insert	3.0	34.33	-30.97	-47.427%	21.72	-31.67	-59.317%	52.964	-16.446	-23.694%
random_char_replace	3.0	30.93	-34.37	-52.634%	19.518	-33.872	-63.442%	51.687	-17.723	-25.534%
random_char_swap	3.0	28.1	-37.2	-56.968%	18.111	-35.279	-66.078%	50.61	-18.8	-27.085%
random_char_delete	3.0	33.59	-31.71	-48.560%	20.87	-32.52	-60.911%	52.677	-16.733	-24.108%
random_word_insert	3.0	63.74	-1.56	-2.389%	42.654	-10.736	-20.109%	68.652	-0.758	-1.092%
random_word_delete	3.0	57.76	-7.54	-11.547%	41.151	-12.239	-22.923%	65.38	-4.03	-5.807%
swap_syn_word_emb	3.0	51.29	-14.01	-21.455%	36.524	-16.866	-31.590%	58.849	-10.561	-15.216%
swap_syn_word_net	3.0	54.43	-10.87	-16.646%	37.248	-16.142	-30.235%	61.834	-7.576	-10.914%
random_word_swap	3.0	63.46	-1.84	-2.818%	46.478	-6.912	-12.946%	69.068	-0.342	-0.492%
			VQ.	A		GQ.	4		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	4.0	42.33	-22.97	-35.176%	25.648	-27.742	-51.961%	54.586	-14.824	-21.357%
typos	4.0	41.86	-23.44	-35.896%	26.92	-26.47	-49.579%	58.059	-11.351	-16.353%
keyboard	4.0	39.79	-25.51	-39.066%	24.805	-28.585	-53.540%	57.055	-12.355	-17.800%
spell_error	4.0	42.07	-23.23	-35.574%	28.121	-25.269	-47.330%	57.313	-12.097	-17.428%
random_char_insert	4.0	30.15	-35.15	-53.828%	19.351	-34.039	-63.755%	51.658	-17.752	-25.576%
random_char_replace	4.0	28.39	-36.91	-56.524%	18.175	-35.215	-65.959%	51.242	-18.168	-26.176%
random_char_swap	4.0	26.51	-38.79	-59.403%	17.944	-35.446	-66.391%	50.309	-19.101	-27.520%
random char delete	4.0	30.31	-34.99	-53.583%	18.532	-34.858	-65.289%	51.643	-17.767	-25.597%
				-5.452%	39.331	-14.059	-26.333%	67.633	-17.707	-2.560%
	4.0	61 74						07.033	-1.///	-2.50070
random_word_insert	4.0	61.74 51.76	-3.56 -13.54						-5.830	-8 412%
random_word_insert random_word_delete	4.0	51.76	-13.54	-20.735%	35.403	-17.987	-33.690%	63.571	-5.839 -11.58	-8.412% -16.684%
random_word_insert random_word_delete swap_syn_word_emb	4.0 4.0	51.76 47.52	-13.54 -17.78	-20.735% -27.228%	35.403 33.63	-17.987 -19.76	-33.690% -37.010%	63.571 57.83	-11.58	-16.684%
random_word_insert random_word_delete	4.0	51.76	-13.54	-20.735%	35.403	-17.987	-33.690%	63.571		

Table 34: Performance and decrease ratio of Multiple Adapters on CLIP-BART against text corruptions given severity 5.

			VQ	A		GQ/	Λ		NLVF	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	39.27	-26.03	-39.862%	23.064	-30.326	-56.801%	52.993	-16.417	-23.653%
punctuation	5.0	64.64	-0.66	-1.011%	50.89	-2.5	-4.682%	69.155	-0.255	-0.368%
typos	5.0	29.45	-35.85	-54.900%	19.741	-33.649	-63.025%	51.328	-18.082	-26.051%
keyboard	5.0	27.31	-37.99	-58.178%	17.896	-35.494	-66.480%	50.624	-18.786	-27.065%
spell_error	5.0	35.0	-30.3	-46.401%	24.217	-29.173	-54.642%	54.615	-14.795	-21.316%
random_char_insert	5.0	27.68	-37.62	-57.611%	18.524	-34.866	-65.304%	50.28	-19.13	-27.561%
random_char_replace	5.0	26.9	-38.4	-58.806%	17.642	-35.748	-66.957%	50.337	-19.073	-27.478%
random_char_swap	5.0	26.1	-39.2	-60.031%	18.755	-34.635	-64.872%	51.242	-18.168	-26.176%
random_char_delete	5.0	27.47	-37.83	-57.933%	18.008	-35.382	-66.272%	51.256	-18.154	-26.155%
to_passive	5.0	62.59	-2.71	-4.150%	45.126	-8.264	-15.478%	68.092	-1.318	-1.898%
tense	5.0	64.64	-0.66	-1.011%	51.463	-1.927	-3.610%	69.844	0.434	0.625%
to_formal	5.0	64.91	-0.39	-0.597%	50.962	-2.428	-4.548%	69.6	0.19	0.273%
to_casual	5.0	62.02	-3.28	-5.023%	46.629	-6.761	-12.663%	68.193	-1.217	-1.753%
to_active	5.0	63.62	-1.68	-2.573%	48.792	-4.598	-8.613%	68.939	-0.471	-0.678%
double_denial	5.0	65.27	-0.03	-0.046%	51.725	-1.665	-3.118%	70.03	0.62	0.893%
insert_adv	5.0	60.92	-4.38	-6.708%	48.259	-5.131	-9.611%	68.868	-0.542	-0.782%
append_irr	5.0	58.2	-7.1	-10.873%	45.588	-7.802	-14.614%	63.514	-5.896	-8.495%
random_word_insert	5.0	58.78	-6.52	-9.985%	34.322	-19.068	-35.715%	67.403	-2.007	-2.891%
drop_nn	5.0	45.5	-19.8	-30.322%	32.08	-21.31	-39.914%	63.7	-5.71	-8.226%
drop_rand_one_nn	5.0	57.31	-7.99	-12.236%	44.053	-9.337	-17.488%	68.982	-0.428	-0.616%
drop_vb	5.0	59.56	-5.74	-8.790%	40.619	-12.771	-23.921%	67.346	-2.064	-2.974%
drop_vb_nn	5.0	46.33	-18.97	-29.051%	28.685	-24.705	-46.273%	61.935	-7.475	-10.770%
only_nn	5.0	35.72	-29.58	-45.299%	14.947	-38.443	-72.005%	57.873	-11.537	-16.622%
only_vb	5.0	52.14	-13.16	-20.153%	36.262	-17.128	-32.081%	64.82	-4.59	-6.613%
only_vb_nn	5.0	41.2	-24.1	-36.907%	25.37	-28.02	-52.482%	59.15	-10.26	-14.781%
drop_rand_one_vb	5.0	63.54	-1.76	-2.695%	45.731	-7.659	-14.346%	68.824	-0.586	-0.844%
drop_first	5.0	60.76	-4.54	-6.953%	42.495	-10.895	-20.407%	68.609	-0.801	-1.154%
drop_last	5.0	54.49	-10.81	-16.554%	44.141	-9.249	-17.324%	67.045	-2.365	-3.408%
drop_first_and_last	5.0	47.37	-17.93	-27.458%	37.542	-15.848	-29.684%	66.399	-3.011	-4.338%
shuffle_order	5.0	57.98	-7.32	-11.210%	37.717	-15.673	-29.356%	65.695	-3.715	-5.352%
random_word_delete	5.0	46.07	-19.23	-29.449%	29.997	-23.393	-43.816%	62.437	-6.973	-10.046%
swap_syn_word_emb	5.0	46.71	-18.59	-28.469%	32.962	-20.428	-38.261%	56.796	-12.614	-18.173%
swap_syn_word_net	5.0	47.98	-17.32	-26.524%	34.385	-19.005	-35.596%	57.399	-12.011	-17.304%
back_trans	5.0	61.77	-3.53	-5.406%	48.116	-5.274	-9.879%	69.14	-0.27	-0.389%
random_word_swap	5.0	61.96	-3.34	-5.115%	44.037	-9.353	-17.518%	67.36	-2.05	-2.953%
nonsense	5.0	24.34	-40.96	-62.726%	16.736	-36.654	-68.654%	51.443	-17.967	-25.886%

Table 35: Performance and decrease ratio of Multiple Compacters on CLIP-BART against text corruptions given severity 1 to 4.

Corruption												
Oct	corruption	severity										
https://processor.com/proces	Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio	
https://processor.com/proces	ocr	1.0	53.92	-10.99	-16.931%	42.026	-10.724	-20.330%	55.964	-13.486	-19.419%	
Reyboard 1.0 5499 9.92 -12.838 43.99 9.659 -18.311% 67.375 2.075 -2.988% spell_error 1.0 50.54 -14.37 -12.288% 42.244 -15.506 -16.155% 67.073 -2.377 -3.422% random_char_insert 1.0 50.54 -14.37 -2.21.38% 32.544 -17.506 -33.187% 62.236 -7.214 -9.209 -13.260% random_char_swap 1.0 40.85 -2.406 -3.70.67% -2.918% -2.6832 -3.01.866% 55.792 -13.658 -19.667% -19.67% -19.20% -1												
Spell_error 1.0 55.79 9.12 -14.050% 42.44 8.506 -16.125% 67.073 2.377 -3.422% random_char_replace 1.0 47.13 -17.78 -22.138% 35.244 -17.506 -33.187% 62.256 -7.214 -10.387% random_char_replace 1.0 47.13 -17.78 -22.1387% 33.240 -20.646 -39.140% 60.241 -9.209 -31.568 -19.666% random_char_delete 1.0 48.7 -16.21 -2.4973% 33.439 -19.311 -36.6608% 60.788 -8.692 -0.224 -0.322% random_word_insert 1.0 64.79 -0.12 -0.185% 51.621 -0.2088 -3.902% 69.226 -0.224 -0.232% random_word_word_neb 1.0 57.54 -7.37 -11.354% 45.103 -7.647 -14.498% 67.289 -2.161 -3.112% random_word_wap 1.0 64.79 -4.737 -11.354% 45.103 -7.647 -14.498% 67.289 -2.163 -3.112% random_word_wap 1.0 64.82 -0.09 -1.15.364% 49.192 -7.647 -14.498% 67.289 -2.163 -3.112% random_word_wap 1.0 64.82 -0.09 -1.15.364% 49.192 -7.647 -14.498% 67.289 -2.163 -3.112% random_word_wap 1.0 64.82 -0.09 -1.15.364% 49.192 -1.199 -1.15.194% 63.275 -0.123 -0.117% -1.199 -1.15.194% -1.199 -1.15.												
random_char_insert												
random_char_replace 1.0 47.13 -17.78 -27.392% 25.918 -20.646 -39.140% 60.241 -9.209 -13.666% random_char_delete 1.0 48.7 -16.21 -24.973% 33.430 -19.311 -36.608% 60.758 -8.692 -12.516% random_char_delete 1.0 64.79 -0.12 -0.185% 51.248 -1.502 -2.2847% 68.982 -0.666 -0.224 -0.322% random_word_delete 55.51 -9.4 -1.4482% 51.248 -1.502 -2.2847% 68.982 -0.666 -0.673% swap_syn_word_net 1.0 57.54 -7.37 -11.354% 45.103 -7.647 -14.489% 67.289 -2.113 -3.112% swap_syn_word_net 1.0 57.54 -7.37 -11.354% 45.103 -7.647 -14.489% 67.289 -2.161 -3.112% swap_syn_word_net -7.647 -7.477 -7.4												
random_char_swap 1.0												
random_word_elleter												
random_word_elber 1.0												
random_word_edeltet 1.0												
Swap_syn_word ent 1.0 55.51 9.4 -14.482% 44.912 77.838 -14.85% 65.337 -4.113 5.923% swap_syn_word ent 1.0 64.82 -0.09 -0.139% 51.741 -1.009 -1.913% 69.327 -0.123 -0.177%												
Swap_syn_word_net												
corruption severity corruption severity corruption VQA becrease becrease Ratio Locate Decrease Decrease Ratio GGA becrease Decrease Ratio NLVR Decrease Decrease Ratio Number Decrease Decrease Ratio CIDIFY Decrease												
corruption severity Acc Decrease Poecrase Ratio Acc Decrease Poecrase Ratio CIDer Decrease Decrease Poecrase Ratio NLV Decrease Poecrase Ratio ocr 2.0 53.54 11.37 -17.517% 38.361 -14.389 -27.278% 63.169 -6.281 -9.044% typos 2.0 54.82 -10.09 -15.545% 40.157 -12.593 -23.287% 64.30 -5.348 -7.706% spell_error 2.0 54.95 -9.96 -15.344% 41.414 +11.336 -22.491% 64.274 -5.176 -7.452% random_char_insert 2.0 40.57 -24.34 +37.498% 25.591 -26.999 -5.1107% 66.223 +31.127 -18.902% random_char_sert 2.0 31.96 -32.95 -5.0763% 19.92 -32.9964 -5.6804% 54.787 -14.666 -22.074 -7.376 -22.074 -7.7376 -22.1113% random_char_delete 2.0 38.23 -26.599 -49.964% 24.591 -28.159 -5.5068 -29.												
Corruption Severity Acc Decrease Decrease Ratio Acc Decrease Decrease Ratio CIDer Decrease Decrease Ratio Decrease Decrease	random_word_swap	1.0	64.82	-0.09	-0.139%	51./41	-1.009	-1.913%	69.327	-0.123	-0.177%	
Corruption Severity Acc Decrease Decrease Ratio Acc Decrease Decrease Ratio CIDer Decrease Decrease Ratio Decrease Decrease				VO	Δ		GO/	\		NI VI	,	
ocr typos 2.0 53.54 -11.37 -17.517% 38.361 -14.389 -27.278% 63.169 -6.281 -9.044% typos 2.0 54.82 -10.09 -15.545% 40.157 -12.593 -23.872% 64.361 -5.089 -7.702% spell_error 2.0 54.95 -9.96 -15.344% 41.414 -11.336 -21.491% 64.274 -5.176 -7.452% random_char_insert 2.0 40.57 -24.34 -37.7088% 25.279 -26.9964 -56.804% 54.787 -14.663 -21.113% random_char_insert 2.0 31.64 -28.51 43.922% 22.786 -29.964 -56.804% 54.787 -14.663 -21.113% random_char_swap 2.0 31.96 -30.924% 24.591 22.8159 -53.383% 56.538 -12.912 -18.592% random_word_insert 2.0 64.31 -0.6044% 24.591 -28.159 -53.333% 56.538 12.912 -18.592% swap_syn_word_	corruption	severity	Acc			Acc			CIDer			
typos 2.0 54.82 1.0.09 -15.545% 40.157 -12.593 2-23.872% 64.361 -5.089 -7.328% sepell error random_char insert 2.0 54.95 -9.96 -15.344% 41.414 -11.316 -21.491% 64.274 -5.176 -7.452% random_char_insert 2.0 40.57 -24.34 -37.498% 25.791 26.959 -51.107% 56.323 -13.127 -18.902% random_char_swap 2.0 31.96 -22.95 -50.763% 19.423 -33.327 -63.180% 52.074 -17.376 -25.019% random_word_ielet 2.0 38.32 -26.59 -40.964% 24.591 -28.159 -53.383% 56.538 -12.912 -18.592% random_word_ielet 2.0 54.98 -89.33 -15.298% 42.591 -10.458% 68.767 -0.683 -20.95 -29.88% swap_syn_word_ent 2.0 55.96 -8.458% 45.134 -7.616 -14.437% 67.375 -20.75 -12.248%												
Reyboard 2.0 5443 -10.48 -16.145% 39.736 -13.014 -24.671% 64.102 -5.348 -7.700% candom_char_insert 2.0 54.95 -9.96 -15.344% 41.44 -11.336 -21.411% 54.224 -17.676 -7.452% candom_char_insert 2.0 40.57 -24.34 -37.498% 25.791 -26.959 -51.107% 56.323 -13.127 -18.902% random_char_kswap 2.0 31.96 -32.95 -50.763% 19.423 -33.327 -63.180% 52.074 -17.376 -25.019% random_char_delete 2.0 38.32 -26.59 -40.964% 24.591 -28.159 -53.838% 56.583 -12.912 -18.592% random_word_emb 2.0 54.98 -9.93 -15.298% 42.591 -10.359 -19.637% 61.418 -8.032 -11.565% swap_syn_word_emb 2.0 54.98 -9.93 -15.298% 42.891 -10.359 -19.637% 61.418 -8.032 -11.565% swap_syn_word_app 2.0 54.88 -1.23 -1.895% 42.884 -9.866 -18.703% 64.662 -4.788 -6.894% -6.89												
Septil.gerror												
random_char_insert 2.0 40.57 -24.34 -37.498% 25.791 -26.999 -51.107% 56.323 -13.127 -18.902% random_char_random_char_replace random_char_swap 2.0 31.96 -32.95 -50.763% 19.423 -33.327 -63.180% 52.074 -17.376 -25.019% random_char_delete random_word_insert 2.0 63.31 -0.6 -0.924% 47.233 -5.517 -10.488% 68.767 -0.683 -12.912 -18.592% random_word_emb swap_syn_word_emb 2.0 54.98 -9.93 15.298% 42.391 -10.595 -19.637% 61.418 -8.032 -11.565% swap_syn_word_net 2.0 65.69 -7.95 12.248% 42.884 -9.866 -18.703% 61.4662 -4.788 -6.894% random_word_swap 2.0 63.68 -1.23 -11.895% 49.189 -35.61 -6.751% 68.968 -0.482 -0.694% corruption severity Acc Decrease Bocrease Ratio Clber De												
random_char_replace	spell_error							-21.491%				
random_char_swap 2.0 31.96 32.95 50.763% 19.423 33.327 -63.180% 52.074 -17.376 225.019% random_char_delete 2.0 38.32 -26.59 40.964% 24.591 -28.159 -53.383% 56.538 -12.912 -18.592% random_word_insert 2.0 64.31 -0.6 -0.924% 47.233 -5.517 -10.458% 68.767 -0.683 -0.983% random_word_delete 2.0 59.42 -5.49 -8.458% 45.134 -7.616 -14.437% 67.375 -2.075 -2.2988% swap_syn_word_ent 2.0 56.96 -7.95 -12.248% 42.381 -10.359 -19.637% 61.48 -8.032 -11.565% swap_syn_word_net 2.0 56.96 -7.95 -12.248% 42.884 -9.866 -18.703% 64.662 -4.788 -6.894% -1.23 -1.895% 49.189 -3.561 -6.751% 68.968 -0.482 -0.694% -0.6	random_char_insert	2.0	40.57	-24.34	-37.498%	25.791	-26.959	-51.107%	56.323	-13.127	-18.902%	
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random_char_swap 4.0 26.72 -38.19 -58.835% 15.599 -37.151 -70.429% 51.313 -18.137 -26.115% random_char_delete 4.0 29.35 -35.56 -54.784% 17.523 -35.227 -66.782% 52.017 -17.433 -25.102% random_word_insert 4.0 62.39 -2.52 -3.882% 42.073 -10.677 -20.240% 67.748 -1.702 -2.451% random_word_delete 4.0 50.93 -13.98 -21.538% 34.823 -17.927 -33.985% 63.04 -6.41 -9.230% swap_syn_word_emb 4.0 47.52 -17.39 -26.791% 34.568 -18.182 -34.468% 57.801 -11.649 -16.773% swap_syn_word_net 4.0 49.86 -15.05 -23.186% 34.878 -17.872 -33.880% 59.323 -10.127 -14.582%	typos keyboard spell_error	4.0 4.0 4.0	41.92 41.66 39.29 41.32	-22.99 -23.25 -25.62 -23.59	-35.418% -35.819% -39.470% -36.343%	27.604 25.688 28.979	-25.146 -27.062 -23.771	-47.671% -51.303% -45.063%	57.873 56.882 57.012	-11.577 -12.568 -12.438	-16.670% -18.096% -17.910%	
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swap_syn_word_emb 4.0 47.52 -17.39 -26.791% 34.568 -18.182 -34.468% 57.801 -11.649 -16.773% swap_syn_word_net 4.0 49.86 -15.05 -23.186% 34.878 -17.872 -33.880% 59.323 -10.127 -14.582%	typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	4.0 4.0 4.0 4.0 4.0 4.0 4.0	41.92 41.66 39.29 41.32 30.03 28.09 26.72 29.35	-22.99 -23.25 -25.62 -23.59 -34.88 -36.82 -38.19 -35.56	-35.418% -35.819% -39.470% -36.343% -53.736% -56.725% -58.835% -54.784%	27.604 25.688 28.979 18.795 17.077 15.599 17.523	-25.146 -27.062 -23.771 -33.955 -35.673 -37.151 -35.227	-47.671% -51.303% -45.063% -64.370% -67.626% -70.429% -66.782%	57.873 56.882 57.012 52.246 51.328 51.313 52.017	-11.577 -12.568 -12.438 -17.204 -18.122 -18.137 -17.433	-16.670% -18.096% -17.910% -24.771% -26.094% -26.115% -25.102%	
swap_syn_word_net 4.0 49.86 -15.05 -23.186% 34.878 -17.872 -33.880% 59.323 -10.127 -14.582%	typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	41.92 41.66 39.29 41.32 30.03 28.09 26.72 29.35 62.39	-22.99 -23.25 -25.62 -23.59 -34.88 -36.82 -38.19 -35.56 -2.52	-35.418% -35.819% -39.470% -36.343% -53.736% -56.725% -58.835% -54.784% -3.882%	27.604 25.688 28.979 18.795 17.077 15.599 17.523 42.073	-25.146 -27.062 -23.771 -33.955 -35.673 -37.151 -35.227 -10.677	-47.671% -51.303% -45.063% -64.370% -67.626% -70.429% -66.782% -20.240%	57.873 56.882 57.012 52.246 51.328 51.313 52.017 67.748	-11.577 -12.568 -12.438 -17.204 -18.122 -18.137 -17.433 -1.702	-16.670% -18.096% -17.910% -24.771% -26.094% -25.102% -2.451%	
	typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	41.92 41.66 39.29 41.32 30.03 28.09 26.72 29.35 62.39 50.93	-22.99 -23.25 -25.62 -23.59 -34.88 -36.82 -38.19 -35.56 -2.52 -13.98	-35.418% -35.819% -39.470% -36.343% -53.736% -56.725% -58.835% -54.784% -3.882% -21.538%	27.604 25.688 28.979 18.795 17.077 15.599 17.523 42.073 34.823	-25.146 -27.062 -23.771 -33.955 -35.673 -37.151 -35.227 -10.677 -17.927	-47.671% -51.303% -45.063% -64.370% -67.626% -70.429% -66.782% -20.240% -33.985%	57.873 56.882 57.012 52.246 51.328 51.313 52.017 67.748 63.04	-11.577 -12.568 -12.438 -17.204 -18.122 -18.137 -17.433 -1.702 -6.41	-16.670% -18.096% -17.910% -24.771% -26.094% -26.115% -25.102% -2.451% -9.230%	
	typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	41.92 41.66 39.29 41.32 30.03 28.09 26.72 29.35 62.39 50.93 47.52	-22.99 -23.25 -25.62 -23.59 -34.88 -36.82 -38.19 -35.56 -2.52 -13.98 -17.39	-35.418% -35.819% -39.470% -36.343% -53.736% -56.725% -58.835% -54.784% -3.882% -21.538% -26.791%	27.604 25.688 28.979 18.795 17.077 15.599 17.523 42.073 34.823 34.568	-25.146 -27.062 -23.771 -33.955 -35.673 -37.151 -35.227 -10.677 -17.927 -18.182	-47.671% -51.303% -45.063% -64.370% -67.626% -70.429% -66.782% -20.240% -33.985% -34.468%	57.873 56.882 57.012 52.246 51.328 51.313 52.017 67.748 63.04 57.801	-11.577 -12.568 -12.438 -17.204 -18.122 -18.137 -17.433 -1.702 -6.41 -11.649	-16.670% -18.096% -17.910% -24.771% -26.094% -26.115% -25.102% -2.451% -9.230% -16.773%	
	typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	41.92 41.66 39.29 41.32 30.03 28.09 26.72 29.35 62.39 50.93 47.52 49.86	-22.99 -23.25 -25.62 -23.59 -34.88 -36.82 -38.19 -35.56 -2.52 -13.98 -17.39 -15.05	-35.418% -35.819% -39.470% -36.343% -53.736% -56.725% -58.835% -54.784% -3.882% -21.538% -26.791% -23.186%	27.604 25.688 28.979 18.795 17.077 15.599 17.523 42.073 34.823 34.568 34.878	-25.146 -27.062 -23.771 -33.955 -35.673 -37.151 -35.227 -10.677 -17.927 -18.182 -17.872	-47.671% -51.303% -45.063% -64.370% -67.626% -70.429% -66.782% -20.240% -33.985% -34.468% -33.880%	57.873 56.882 57.012 52.246 51.328 51.313 52.017 67.748 63.04 57.801 59.323	-11.577 -12.568 -12.438 -17.204 -18.122 -18.137 -17.433 -1.702 -6.41 -11.649 -10.127	-16.670% -18.096% -17.910% -24.771% -26.094% -26.115% -25.102% -2.451% -9.230% -16.773% -14.582%	

Table 36: Performance and decrease ratio of Multiple Compacters on CLIP-BART against text corruptions given severity 5.

			VQ.	A		GQ/	A		NLVF	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	38.61	-26.3	-40.518%	23.422	-29.328	-55.598%	53.538	-15.912	-22.911%
punctuation	5.0	64.59	-0.32	-0.493%	51.685	-1.065	-2.018%	68.997	-0.453	-0.653%
typos	5.0	29.7	-35.21	-54.244%	19.645	-33.105	-62.758%	51.486	-17.964	-25.867%
keyboard	5.0	27.11	-37.8	-58.234%	18.564	-34.186	-64.807%	50.768	-18.682	-26.900%
spell_error	5.0	34.81	-30.1	-46.372%	24.964	-27.786	-52.674%	54.385	-15.065	-21.692%
random_char_insert	5.0	27.63	-37.28	-57.433%	17.888	-34.862	-66.088%	51.17	-18.28	-26.321%
random_char_replace	5.0	26.65	-38.26	-58.943%	16.64	-36.11	-68.455%	50.782	-18.668	-26.879%
random_char_swap	5.0	26.26	-38.65	-59.544%	16.298	-36.452	-69.103%	52.045	-17.405	-25.061%
random_char_delete	5.0	27.34	-37.57	-57.880%	16.107	-36.643	-69.464%	51.356	-18.094	-26.053%
to_passive	5.0	62.46	-2.45	-3.774%	43.067	-9.683	-18.356%	67.317	-2.133	-3.071%
tense	5.0	64.12	-0.79	-1.217%	52.473	-0.277	-0.526%	69.241	-0.209	-0.301%
to_formal	5.0	64.44	-0.47	-0.724%	51.932	-0.818	-1.551%	69.628	0.178	0.257%
to_casual	5.0	62.14	-2.77	-4.267%	45.707	-7.043	-13.352%	67.877	-1.573	-2.265%
to_active	5.0	63.37	-1.54	-2.373%	48.887	-3.863	-7.323%	68.753	-0.697	-1.004%
double_denial	5.0	64.82	-0.09	-0.139%	52.719	-0.031	-0.059%	69.442	-0.008	-0.012%
insert_adv	5.0	61.69	-3.22	-4.961%	49.443	-3.307	-6.268%	68.078	-1.372	-1.975%
append_irr	5.0	61.1	-3.81	-5.870%	46.995	-5.755	-10.910%	63.585	-5.865	-8.444%
random_word_insert	5.0	60.19	-4.72	-7.272%	37.216	-15.534	-29.449%	67.059	-2.391	-3.443%
drop_nn	5.0	46.48	-18.43	-28.393%	32.485	-20.265	-38.417%	63.643	-5.807	-8.362%
drop_rand_one_nn	5.0	56.9	-8.01	-12.340%	44.467	-8.283	-15.703%	68.638	-0.812	-1.169%
drop_vb	5.0	60.37	-4.54	-6.994%	34.91	-17.84	-33.820%	67.906	-1.544	-2.223%
drop_vb_nn	5.0	47.84	-17.07	-26.298%	23.271	-29.479	-55.885%	61.964	-7.486	-10.780%
only_nn	5.0	35.98	-28.93	-44.569%	16.314	-36.436	-69.073%	57.758	-11.692	-16.835%
only_vb	5.0	52.59	-12.32	-18.980%	38.909	-13.841	-26.238%	64.906	-4.544	-6.543%
only_vb_nn	5.0	41.42	-23.49	-36.189%	31.515	-21.235	-40.255%	60.442	-9.008	-12.970%
drop_rand_one_vb	5.0	63.62	-1.29	-1.987%	41.907	-10.843	-20.556%	68.236	-1.214	-1.748%
drop_first	5.0	58.62	-6.29	-9.690%	37.971	-14.779	-28.017%	68.322	-1.128	-1.624%
drop_last	5.0	54.76	-10.15	-15.637%	46.041	-6.709	-12.719%	67.777	-1.673	-2.409%
drop_first_and_last	5.0	45.91	-19.0	-29.271%	33.201	-19.549	-37.060%	66.298	-3.152	-4.538%
shuffle_order	5.0	57.91	-7.0	-10.784%	39.362	-13.388	-25.379%	64.992	-4.458	-6.419%
random_word_delete	5.0	45.22	-19.69	-30.334%	29.059	-23.691	-44.912%	61.72	-7.73	-11.131%
swap_syn_word_emb	5.0	46.64	-18.27	-28.147%	33.527	-19.223	-36.442%	57.17	-12.28	-17.682%
swap_syn_word_net	5.0	46.98	-17.93	-27.623%	33.487	-19.263	-36.517%	57.227	-12.223	-17.600%
back_trans	5.0	61.57	-3.34	-5.146%	49.149	-3.601	-6.826%	68.451	-0.999	-1.438%
random_word_swap	5.0	61.73	-3.18	-4.899%	45.047	-7.703	-14.603%	66.628	-2.822	-4.063%
nonsense	5.0	18.95	-45.96	-70.806%	4.023	-48.727	-92.374%	51.012	-18.438	-26.549%

Table 37: Performance and decrease ratio of Multiple LoRA on CLIP-BART against text corruptions given severity 1 to 4.

			VQ.	A		GQ.	Λ		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	53.63	-11.81	-18.047%	41.469	-10.581	-20.328%	51.213	-0.107	-0.209%
typos	1.0	55.85	-9.59	-14.655%	43.282	-8.768	-16.845%	51.084	-0.236	-0.460%
keyboard	1.0	54.8	-10.64	-16.259%	42.225	-9.825	-18.877%	51.17	-0.15	-0.293%
spell_error	1.0	55.58	-9.86	-15.067%	44.021	-8.029	-15.425%	51.055	-0.265	-0.516%
random_char_insert	1.0	50.71	-14.73	-22.509%	34.473	-17.577	-33.770%	51.428	0.108	0.211%
random_char_replace	1.0	47.34	-18.1	-27.659%	31.213	-20.837	-40.032%	51.313	-0.007	-0.013%
random_char_swap	1.0	40.74	-24.7	-37.744%	25.004	-27.046	-51.962%	51.141	-0.179	-0.349%
random_char_delete	1.0	49.25	-16.19	-24.740%	32.803	-19.247	-36.977%	51.5	0.18	0.351%
random_word_insert	1.0	65.36	-0.08	-0.122%	50.302	-1.748	-3.358%	51.859	0.539	1.050%
random_word_delete	1.0	65.24	-0.2	-0.306%	50.62	-1.43	-2.747%	51.572	0.252	0.490%
swap_syn_word_emb	1.0	55.34	-10.1	-15.434%	44.641	-7.409	-14.234%	51.572	0.252	0.490%
swap_syn_word_net	1.0	57.92	-7.52	-11.491%	44.482	-7.568	-14.539%	51.299	-0.021	-0.041%
random_word_swap	1.0	65.33	-0.11	-0.168%	51.105	-0.945	-1.815%	51.127	-0.193	-0.377%
corruption	severity		VQ.			GQ.			NLVF	
Corruption		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	53.02	-12.42	-18.979%	37.287	-14.763	-28.362%	51.155	-0.165	-0.321%
typos	2.0	54.39	-11.05	-16.886%	39.354	-12.696	-24.391%	51.5	0.18	0.351%
keyboard	2.0	54.21	-11.23	-17.161%	38.186	-13.864	-26.636%	51.399	0.079	0.155%
spell_error	2.0	54.77	-10.67	-16.305%	40.801	-11.249	-21.611%	51.385	0.065	0.127%
random_char_insert	2.0	40.53	-24.91	-38.065%	25.195	-26.855	-51.595%	51.586	0.266	0.518%
random_char_replace	2.0	36.61	-28.83	-44.056%	22.229	-29.821	-57.292%	52.045	0.725	1.413%
random_char_swap	2.0	31.8	-33.64	-51.406%	19.264	-32.786	-62.990%	50.567	-0.753	-1.467%
random_char_delete	2.0	38.65	-26.79	-40.938%	24.193	-27.857	-53.520%	51.227	-0.093	-0.181%
random_word_insert	2.0	63.77	-1.67	-2.552%	47.408	-4.642	-8.918%	51.758	0.438	0.854%
random_word_delete	2.0	60.07	-5.37	-8.206%	45.095	-6.955	-13.363%	51.184	-0.136	-0.265%
swap_syn_word_emb	2.0	54.66	-10.78	-16.473%	40.992	-11.058	-21.245%	51.17	-0.15	-0.293%
swap_syn_word_net	2.0	57.28	-8.16	-12.469%	41.724	-10.326	-19.839%	51.371	0.051	0.099%
random_word_swap	2.0	64.59	-0.85	-1.299%	48.553	-3.497	-6.718%	51.098	-0.222	-0.433%
corruption	severity		VQ.			GQ/		ar.	NLVF	
	•	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	47.96	-17.48	-26.711%	30.156	-21.894	-42.064%	50.926	-0.394	-0.768%
typos	3.0	49.17	-16.27	-24.862%	32.779	-19.271	-37.023%	51.514	0.194	0.379%
keyboard	3.0	48.31	-17.13	-26.177%	30.553	-21.497	-41.300%	51.242	-0.078	-0.153%
spell_error	3.0	49.66	-15.78	-24.114%	34.075	-17.975	-34.533%	50.811	-0.509	-0.992%
random_char_insert	3.0	33.64	-31.8	-48.594%	20.806	-31.244	-60.027%	52.146	0.826	1.609%
random_char_replace	3.0	30.81	-34.63	-52.919%	20.194	-31.856	-61.203%	51.945	0.625	1.218%
random char swap	3.0	28.23	-37.21	-56.861%	18.071	-33.979	-65.281%	51.041	-0.279	-0.544%
random_char_delete	3.0	32.98	-32.46	-49.603%	20.512	-31.538	-60.592%	50.696	-0.624	-1.216%
random_word_insert	3.0	61.88	-3.56	-5.440%	43.83			52,175	0.855	
random_word_delete						-8.22	-15./92%			1.005%
	3.0						-15.792% -22.222%			1.665% -0.516%
	3.0 3.0	57.3	-8.14	-12.439%	40.483	-11.567	-22.222%	51.055	-0.265	-0.516%
swap_syn_word_emb	3.0	57.3 51.07	-8.14 -14.37	-12.439% -21.959%	40.483 35.316	-11.567 -16.734	-22.222% -32.151%	51.055 51.285	-0.265 -0.035	-0.516% -0.069%
swap_syn_word_emb swap_syn_word_net random_word_swap		57.3	-8.14	-12.439%	40.483	-11.567	-22.222%	51.055	-0.265	-0.516%
swap_syn_word_net random_word_swap	3.0 3.0 3.0	57.3 51.07 53.97	-8.14 -14.37 -11.47 -1.58	-12.439% -21.959% -17.528% -2.414%	40.483 35.316 36.23	-11.567 -16.734 -15.82 -5.357	-22.222% -32.151% -30.394% -10.293%	51.055 51.285 51.313	-0.265 -0.035 -0.007	-0.516% -0.069% -0.013% 0.043%
swap_syn_word_net	3.0 3.0	57.3 51.07 53.97	-8.14 -14.37 -11.47	-12.439% -21.959% -17.528% -2.414%	40.483 35.316 36.23	-11.567 -16.734 -15.82	-22.222% -32.151% -30.394% -10.293%	51.055 51.285 51.313	-0.265 -0.035 -0.007 0.022	-0.516% -0.069% -0.013% 0.043%
swap_syn_word_net random_word_swap corruption ocr	3.0 3.0 3.0 severity	57.3 51.07 53.97 63.86 Acc 41.18	-8.14 -14.37 -11.47 -1.58 VQ Decrease	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072%	40.483 35.316 36.23 46.693 Acc 24.4	-11.567 -16.734 -15.82 -5.357 GQA Decrease	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122%	51.055 51.285 51.313 51.342 CIDer 50.883	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437	-0.516% -0.069% -0.013% 0.043% R Decrease Ratio -0.852%
swap_syn_word_net random_word_swap corruption ocr typos	3.0 3.0 3.0 severity 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111%	40.483 35.316 36.23 46.693 Acc 24.4 26.475	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323	-0.516% -0.069% -0.013% 0.043% R Decrease Ratio -0.852% 0.630%
swap_syn_word_net random_word_swap corruption ocr	3.0 3.0 3.0 severity 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107	-0.516% -0.069% -0.013% 0.043% R Decrease Ratio -0.852%
swap_syn_word_net random_word_swap corruption ocr typos	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222	-0.516% -0.069% -0.013% 0.043% Recrease Ratio -0.852% 0.630% -0.209% -0.433%
swap_syn_word_net random_word_swap corruption ocr typos keyboard	3.0 3.0 3.0 severity 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558 -32.937	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107	-0.516% -0.069% -0.013% -0.043% Recrease Ratio -0.852% -0.630% -0.209%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222	-0.516% -0.069% -0.013% 0.043% Recrease Ratio -0.852% 0.630% -0.209% -0.433%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558 -32.937	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222 -0.179	-0.516% -0.069% -0.013% -0.043% R Decrease Ratio -0.852% -0.630% -0.209% -0.433% -0.349%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92 27.87	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52 -37.57	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279% -57.411%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113 18.771	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558 -32.937 -33.279	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280% -63.937%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141 51.127	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222 -0.179 -0.193	-0.516% -0.069% -0.013% 0.043% Decrease Ratio -0.852% 0.630% -0.209% -0.433% -0.349% -0.377%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92 27.87 26.59	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52 -37.57 -38.85	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279% -57.411% -59.367%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113 18.771 17.022	-11.567 -16.734 -15.82 -5.357 Decrease -27.65 -25.575 -27.73 -24.558 -32.937 -33.279 -35.028	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280% -63.937% -67.297%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141 51.127 51.242	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 -0.323 -0.107 -0.222 -0.179 -0.193 -0.078	-0.516% -0.069% -0.013% 0.043% Recrease Ratio -0.852% 0.630% -0.209% -0.433% -0.349% -0.377% -0.153%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92 27.87 26.59 29.93	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52 -37.57 -38.85 -35.51	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279% -57.411% -59.367% -54.263%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113 18.771 17.022 17.92	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558 -32.937 -33.279 -35.028 -34.13	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280% -63.937% -67.297% -65.571%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141 51.127 51.242 50.553	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222 -0.179 -0.193 -0.078 -0.767	-0.516% -0.069% -0.013% -0.043% Decrease Ratio -0.852% -0.630% -0.209% -0.433% -0.349% -0.377% -0.153% -1.495%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92 27.87 26.59 29.93 58.79 51.38	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52 -37.57 -38.85 -35.51 -6.65	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279% -57.411% -59.367% -54.263% -10.162% -21.485%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113 18.771 17.022 17.92 40.523 35.085	-11.567 -16.734 -15.82 -5.357 GQA Decrease -27.65 -25.575 -27.73 -24.558 -32.937 -33.279 -35.028 -34.13 -11.527 -16.965	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280% -63.937% -67.297% -65.571% -22.146% -32.594%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141 51.127 51.242 50.553 51.758 50.581	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222 -0.179 -0.193 -0.078 -0.767 0.438 -0.739	-0.516% -0.069% -0.013% -0.043% Recrease Ratio -0.852% -0.630% -0.209% -0.433% -0.349% -0.347% -0.153% -1.495% 0.854% -1.439%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	57.3 51.07 53.97 63.86 Acc 41.18 40.5 38.82 41.1 29.92 27.87 26.59 29.93 58.79	-8.14 -14.37 -11.47 -1.58 VQ. Decrease -24.26 -24.94 -26.62 -24.34 -35.52 -37.57 -38.85 -35.51 -6.65	-12.439% -21.959% -17.528% -2.414% A Decrease Ratio -37.072% -38.111% -40.678% -37.194% -54.279% -57.411% -59.367% -54.263% -10.162%	40.483 35.316 36.23 46.693 Acc 24.4 26.475 24.32 27.492 19.113 18.771 17.022 17.92 40.523	-11.567 -16.734 -15.82 -5.357 GQ/A Decrease -27.65 -25.575 -27.73 -24.558 -32.937 -33.279 -35.028 -34.13 -11.527	-22.222% -32.151% -30.394% -10.293% A Decrease Ratio -53.122% -49.136% -53.275% -47.181% -63.280% -63.937% -67.297% -65.571% -22.146%	51.055 51.285 51.313 51.342 CIDer 50.883 51.643 51.213 51.098 51.141 51.127 51.242 50.553 51.758	-0.265 -0.035 -0.007 0.022 NLVF Decrease -0.437 0.323 -0.107 -0.222 -0.179 -0.193 -0.078 -0.767 0.438	-0.516% -0.069% -0.013% -0.013% -0.043% R Decrease Ratio -0.852% -0.630% -0.209% -0.433% -0.349% -0.377% -0.153% -1.495% -0.854%

Table 38: Performance and decrease ratio of Multiple LoRA on CLIP-BART against text corruptions given severity 5.

	severity		VQ	A		GQ.	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	37.98	-27.46	-41.962%	21.959	-30.091	-57.812%	51.356	0.036	0.071%
punctuation	5.0	64.86	-0.58	-0.886%	51.208	-0.842	-1.617%	51.342	0.022	0.043%
typos	5.0	29.5	-35.94	-54.921%	18.668	-33.382	-64.135%	50.682	-0.638	-1.244%
keyboard	5.0	27.3	-38.14	-58.282%	17.356	-34.694	-66.656%	51.658	0.338	0.658%
spell_error	5.0	34.57	-30.87	-47.173%	23.39	-28.66	-55.062%	51.17	-0.15	-0.293%
random_char_insert	5.0	27.81	-37.63	-57.503%	18.389	-33.661	-64.670%	51.844	0.524	1.022%
random_char_replace	5.0	26.16	-39.28	-60.024%	18.365	-33.685	-64.716%	51.371	0.051	0.099%
random_char_swap	5.0	26.04	-39.4	-60.208%	18.485	-33.565	-64.487%	52.175	0.855	1.665%
random_char_delete	5.0	27.41	-38.03	-58.114%	17.268	-34.782	-66.824%	51.055	-0.265	-0.516%
to_passive	5.0	62.8	-2.64	-4.034%	43.95	-8.1	-15.562%	51.572	0.252	0.490%
tense	5.0	64.6	-0.84	-1.284%	51.654	-0.396	-0.761%	51.242	-0.078	-0.153%
to_formal	5.0	64.99	-0.45	-0.688%	51.296	-0.754	-1.449%	51.184	-0.136	-0.265%
to_casual	5.0	62.47	-2.97	-4.539%	45.484	-6.566	-12.614%	50.352	-0.968	-1.887%
to_active	5.0	63.37	-2.07	-3.163%	48.466	-3.584	-6.887%	51.299	-0.021	-0.041%
double_denial	5.0	65.34	-0.1	-0.153%	52.035	-0.015	-0.028%	51.328	0.008	0.015%
insert_adv	5.0	61.41	-4.03	-6.158%	48.521	-3.529	-6.780%	51.141	-0.179	-0.349%
append_irr	5.0	59.52	-5.92	-9.046%	45.611	-6.439	-12.370%	51.428	0.108	0.211%
random_word_insert	5.0	55.27	-10.17	-15.541%	36.047	-16.003	-30.745%	51.443	0.123	0.239%
drop_nn	5.0	45.07	-20.37	-31.128%	31.34	-20.71	-39.788%	51.328	0.008	0.015%
drop_rand_one_nn	5.0	56.58	-8.86	-13.539%	43.767	-8.283	-15.914%	51.256	-0.064	-0.125%
drop_vb	5.0	58.68	-6.76	-10.330%	40.658	-11.392	-21.886%	51.974	0.654	1.274%
drop_vb_nn	5.0	44.94	-20.5	-31.326%	27.818	-24.232	-46.554%	52.146	0.826	1.609%
only_nn	5.0	27.0	-38.44	-58.741%	22.508	-29.542	-56.758%	52.175	0.855	1.665%
only_vb	5.0	50.54	-14.9	-22.769%	38.162	-13.888	-26.682%	51.658	0.338	0.658%
only_vb_nn	5.0	29.47	-35.97	-54.966%	27.596	-24.454	-46.982%	52.002	0.682	1.329%
drop_rand_one_vb	5.0	63.16	-2.28	-3.484%	46.176	-5.874	-11.286%	51.916	0.596	1.162%
drop_first	5.0	45.9	-19.54	-29.859%	42.113	-9.937	-19.091%	51.6	0.28	0.546%
drop_last	5.0	53.95	-11.49	-17.558%	44.999	-7.051	-13.546%	51.5	0.18	0.351%
drop_first_and_last	5.0	34.39	-31.05	-47.448%	36.214	-15.836	-30.425%	51.356	0.036	0.071%
shuffle_order	5.0	59.74	-5.7	-8.710%	38.909	-13.141	-25.246%	51.098	-0.222	-0.433%
random_word_delete	5.0	45.47	-19.97	-30.517%	29.369	-22.681	-43.576%	51.184	-0.136	-0.265%
swap_syn_word_emb	5.0	46.29	-19.15	-29.263%	30.665	-21.385	-41.086%	51.055	-0.265	-0.516%
swap_syn_word_net	5.0	48.52	-16.92	-25.856%	31.849	-20.201	-38.810%	51.055	-0.265	-0.516%
back_trans	5.0	62.07	-3.37	-5.150%	48.179	-3.871	-7.436%	51.744	0.424	0.826%
random_word_swap	5.0	62.66	-2.78	-4.248%	44.395	-7.655	-14.707%	51.371	0.051	0.099%
nonsense	5.0	8.37	-57.07	-87.210%	13.77	-38.28	-73.545%	50.797	-0.523	-1.020%

Table 39: Performance and decrease ratio of Multiple Prompts on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ			GQA		CID	NLVF	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	41.44	-5.37	-11.472%	29.758	-4.252	-12.501%	50.251	0.381	0.764%
typos	1.0	39.78	-7.03	-15.018%	29.599	-4.411	-12.969%	49.978	0.108	0.218%
keyboard	1.0	39.47	-7.34	-15.680%	29.48	-4.53	-13.319%	49.978	0.108	0.218%
spell_error	1.0	39.38	-7.43	-15.873%	30.259	-3.751	-11.029%	49.921	0.051	0.102%
random_char_insert	1.0	38.69	-8.12	-17.347%	26.244	-7.766	-22.834%	50.452	0.582	1.167%
random_char_replace	1.0	37.03	-9.78	-20.893%	24.575	-9.435	-27.743%	50.754	0.884	1.772%
random_char_swap	1.0	33.51	-13.3	-28.413%	21.387	-12.623	-37.117%	50.194	0.324	0.649%
random_char_delete	1.0	37.19	-9.62	-20.551%	24.36	-9.65	-28.374%	49.878	0.008	0.016%
random_word_insert	1.0	46.83	0.02	0.043%	33.455	-0.555	-1.631%	49.892	0.022	0.045%
random_word_delete	1.0	46.69	-0.12	-0.256%	33.59	-0.42	-1.234%	49.964	0.094	0.189%
swap_syn_word_emb	1.0	43.73	-3.08	-6.580%	31.468	-2.542	-7.475%	49.921	0.051	0.102%
swap_syn_word_net	1.0	44.91	-1.9	-4.059%	30.752	-3.258	-9.579%	49.964	0.094	0.189%
random_word_swap	1.0	46.77	-0.04	-0.085%	33.821	-0.189	-0.556%	50.036	0.166	0.333%
			VQ	A		GQ.A	4		NLVF	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	41.17	-5.64	-12.049%	28.462	-5.548	-16.312%	50.079	0.209	0.419%
typos	2.0	39.39	-7.42	-15.851%	28.423	-5.587	-16.429%	49.95	0.08	0.160%
keyboard	2.0	38.83	-7.98	-17.048%	28.089	-5.921	-17.410%	50.495	0.625	1.254%
spell_error	2.0	38.87	-7.94	-16.962%	28.669	-5.341	-15.704%	49.433	-0.437	-0.876%
random_char_insert	2.0	33.92	-12.89	-27.537%	21.657	-12.353	-36.322%	50.409	0.539	1.081%
random_char_replace	2.0	31.53	-15.28	-32.643%	20.178	-13.832	-40.670%	50.725	0.855	1.714%
random_char_swap	2.0	28.86	-17.95	-38.347%	18.357	-15.653	-46.023%	50.022	0.152	0.304%
random_char_delete	2.0	31.78	-15.03	-32.109%	20.536	-13.474	-39.618%	50.194	0.324	0.649%
random_word_insert	2.0	45.83	-0.98	-2.094%	31.953	-2.057	-6.049%	50.079	0.209	0.419%
random_word_delete	2.0	42.35	-4.46	-9.528%	31.102	-2.908	-8.551%	49.734	-0.136	-0.272%
swap_syn_word_emb	2.0	43.35	-3.46	-7.392%	29,416	-4.594	-13.506%	49.935	0.065	0.131%
swap_syn_word_net	2.0	44.62	-2.19	-4.678%	29.814	-4.196	-12.338%	49.763	-0.107	-0.214%
random_word_swap	2.0	46.18	-0.63	-1.346%	33.479	-0.531	-1.561%	49.907	0.037	0.074%
			VQ	A		GQA	4		NLVF	?
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	38.72	-8.09	-17.283%	24.781	-9.229	-27.135%	49.878	0.008	0.016%
typos	3.0	36.34	-10.47	-22.367%	24.805	-9.205	-27.065%	50.05	0.18	0.361%
keyboard	3.0	35.76	-11.05	-23.606%	24.495	-9.515	-27.977%	49.935	0.065	0.131%
Keyboaru	5.0						25 5226	49.892	0.022	0.045%
spell_error	3.0	35.55	-11.26	-24.055%	25.258	-8.752	-25.732%	47.072		0.04576
			-11.26 -16.56	-24.055% -35.377%	25.258 19.645	-8.752 -14.365	-25.732% -42.236%	49.821	-0.049	-0.099%
spell_error	3.0	35.55			19.645 18.898				-0.049 0.396	
spell_error random_char_insert	3.0 3.0	35.55 30.25	-16.56	-35.377%	19.645	-14.365	-42.236%	49.821		-0.099%
spell_error random_char_insert random_char_replace	3.0 3.0 3.0	35.55 30.25 28.76	-16.56 -18.05	-35.377% -38.560%	19.645 18.898	-14.365 -15.112	-42.236% -44.434%	49.821 50.266	0.396	-0.099% 0.793%
spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14	-16.56 -18.05 -19.67	-35.377% -38.560% -42.021%	19.645 18.898 17.602	-14.365 -15.112 -16.408	-42.236% -44.434% -48.244%	49.821 50.266 49.763	0.396 -0.107	-0.099% 0.793% -0.214%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47	-35.377% -38.560% -42.021% -38.304%	19.645 18.898 17.602 18.524	-14.365 -15.112 -16.408 -15.486	-42.236% -44.434% -48.244% -45.532%	49.821 50.266 49.763 50.366	0.396 -0.107 0.496	-0.099% 0.793% -0.214% 0.995%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02	-35.377% -38.560% -42.021% -38.304% -3.290%	19.645 18.898 17.602 18.524 30.649	-14.365 -15.112 -16.408 -15.486 -3.361	-42.236% -44.434% -48.244% -45.532% -9.883%	49.821 50.266 49.763 50.366 50.51	0.396 -0.107 0.496 0.64 0.123 0.108	-0.099% 0.793% -0.214% 0.995% 1.282%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822%	19.645 18.898 17.602 18.524 30.649 29.377	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623%	49.821 50.266 49.763 50.366 50.51 49.993	0.396 -0.107 0.496 0.64 0.123	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724%	19.645 18.898 17.602 18.524 30.649 29.377 26.586	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829%	49.821 50.266 49.763 50.366 50.51 49.993 49.978	0.396 -0.107 0.496 0.64 0.123 0.108	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218%
spell_error random_char_insert random_char_replace random_char_swap random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79 43.28 45.65	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724% -7.541% -2.478%	19.645 18.898 17.602 18.524 30.649 29.377 26.586 27.397 33.018	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917%	49.821 50.266 49.763 50.366 50.51 49.993 49.978 50.108 50.122	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505%
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spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79 43.28 45.65 Acc 34.95	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16 VQ Decrease	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724% -7.541% -2.478% A Decrease Ratio -25.336%	19.645 18.898 17.602 18.524 30.649 29.377 26.586 27.397 33.018 Acc 21.919	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992 GQA Decrease	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917% A Decrease Ratio -35.551%	49.821 50.266 49.763 50.366 50.51 49.993 50.108 50.122 CIDer 50.38	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252 NLVF Decrease	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505% Decrease Ratio 1.023%
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spell_error random_char_insert random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79 43.28 45.65 Acc 34.95 32.05 30.97 31.32 28.93 27.32 26.13 27.23	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16 VQ Decrease -11.86 -14.76 -15.84 -15.84 -17.88 -19.49 -20.68	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724% -7.541% -2.478% A Decrease Ratio -25.336% -31.532% -33.839% -33.091% -38.197% -41.636% -44.179% -41.829%	19.645 18.898 17.602 18.524 30.649 29.377 26.586 27.397 33.018 Acc 21.919 21.657 21.076 21.903 18.787 18.278 17.332 17.352	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992 -12.091 -12.353 -12.934 -12.107 -15.223 -15.732 -16.678 -16.36	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917% A Decrease Ratio -35.551% -36.322% -38.029% -35.597% -44.761% -46.257% -49.039% -48.104%	49.821 50.266 49.763 50.366 50.51 49.993 49.978 50.108 50.122 CIDer 50.38 50.782 50.366 49.964 50.309 49.964 49.763 50.136	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252 NLVF Decrease 0.51 0.912 0.496 0.094 0.439 0.094 -0.107	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505% R Decrease Ratio 1.023% 1.829% 0.995% 0.189% 0.189% 0.189% 0.189% -0.214% 0.534%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_replace random_char_delete random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79 43.28 45.65 Acc 34.95 32.05 30.97 31.32 28.93 27.32 26.13 27.23 44.37	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16 VQ Decrease -11.86 -14.76 -15.84 -15.84 -15.89 -17.88 -19.49 -20.68 -19.49 -20.68	-35.377% -38.560% -42.021% -28.304% -3.290% -13.822% -10.724% -7.541% -2.478% A Decrease Ratio -25.336% -31.532% -33.839% -33.091% -38.197% -41.636% -44.179% -41.829% -5.213%	19.645 18.898 17.602 18.524 30.649 29.377 33.018 Acc 21.919 21.657 21.076 21.903 18.787 18.278 17.332 17.65 29.138	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992 -12.091 -12.353 -12.934 -12.107 -15.223 -15.732 -16.678 -4.872	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917% A Decrease Ratio -35.551% -36.322% -38.029% -35.597% -44.761% -46.257% -49.039% -48.104% -14.325%	49.821 50.266 49.763 50.366 50.51 49.993 49.978 50.108 50.122 CIDer 50.38 50.782 50.366 49.964 49.964 49.763 50.136 50.136 50.136	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252 NLVF Decrease 0.51 0.912 0.496 0.094 0.439 0.094 -0.107 0.266	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505% **Decrease Ratio* 1.023% 1.829% 0.995% 0.189% 0.189% -0.214% 0.534% 2.175%
spell_error random_char_insert random_char_insert random_char_replace random_char_delete random_word_insert random_word_elete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_swap random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	35.55 30.25 27.14 28.88 45.27 40.34 41.79 43.28 45.65 Acc 34.95 32.05 30.97 31.32 28.93 27.32 26.13 27.23 44.37 36.63	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16 VQ Decrease -11.86 -14.76 -15.84 -15.84 -17.89 -17.89 -19.49 -20.68 -19.58 -2.44 -10.18	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724% -7.541% -2.478% A Decrease Ratio -25.336% -31.532% -33.839% -33.091% -38.197% -41.636% -44.179% -41.829% -5.213% -5.213%	19.645 18.898 17.602 18.524 30.649 29.377 26.586 27.397 33.018 Acc 21.919 21.657 21.076 21.903 18.787 17.332 17.65 29.138 27.325	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992 -12.091 -12.353 -12.934 -12.107 -15.223 -15.732 -16.678 -16.36 -4.872 -6.685	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917% A Decrease Ratio -35.551% -36.322% -38.029% -35.597% -44.761% -46.257% -49.039% -48.104% -14.325% -19.655%	49.821 50.266 49.763 50.366 50.51 49.993 49.978 50.108 50.122 CIDer 50.38 50.782 50.366 49.964 50.309 49.763 50.136 50.136 50.954 49.835	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252 NLVF Decrease 0.51 0.912 0.496 0.094 -0.107 0.266 1.084 -0.035	-0.099% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505% **Paccesse Ratio** 1.023% 1.829% 0.995% 0.189% 0.879% 0.189% -0.214% 0.534% 2.175% -0.070%
spell_error random_char_insert random_char_replace random_char_swap random_char_swap random_word_elete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_insert random_char_delete random_word_delete random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.55 30.25 28.76 27.14 28.88 45.27 40.34 41.79 43.28 45.65 Acc 34.95 32.05 30.97 31.32 28.93 27.32 44.37 36.63 40.46	-16.56 -18.05 -19.67 -17.93 -1.54 -6.47 -5.02 -3.53 -1.16 VQ Decrease -11.86 -14.76 -15.84 -15.49 -17.88 -19.49 -20.68 -19.58 -2.44 -10.18 -6.35	-35.377% -38.560% -42.021% -38.304% -3.290% -13.822% -10.724% -7.541% -2.478% A Decrease Ratio -25.336% -31.532% -33.839% -33.091% -38.197% -41.636% -44.179% -41.829% -5.213% -21.747% -13.565%	19,645 18,898 17,602 18,524 30,649 29,377 26,586 27,397 33,018 Acc 21,919 21,657 21,076 21,903 18,787 18,278 17,332 17,65 29,138 27,325 25,473	-14.365 -15.112 -16.408 -15.486 -3.361 -4.633 -7.424 -6.613 -0.992 -12.091 -12.353 -12.934 -12.107 -15.223 -15.732 -16.678 -16.36 -4.872 -6.685 -8.537	-42.236% -44.434% -48.244% -45.532% -9.883% -13.623% -21.829% -19.444% -2.917%	49.821 50.266 49.763 50.366 50.51 49.993 50.108 50.122 CIDer 50.38 50.782 50.366 49.964 49.763 50.309 49.964 49.763 50.954 49.835 50.954 49.835	0.396 -0.107 0.496 0.64 0.123 0.108 0.238 0.252 NLVF Decrease 0.51 0.912 0.496 0.094 0.439 0.094 0.107 0.266 1.084 -0.035 -0.049	-0.099% 0.793% 0.793% -0.214% 0.995% 1.282% 0.246% 0.218% 0.477% 0.505% Recrease Ratio 1.023% 1.829% 0.995% 0.189% 0.189% 0.189% -0.214% 0.534% 2.175% -0.070% -0.099%

Table 40: Performance and decrease ratio of Multiple Prompts on CLIP-BART against text corruptions given severity 5.

			VQ	A		GQ.	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	32.66	-14.15	-30.229%	20.496	-13.514	-39.735%	50.093	0.223	0.448%
punctuation	5.0	45.08	-1.73	-3.696%	33.344	-0.666	-1.958%	50.065	0.195	0.390%
typos	5.0	26.63	-20.18	-43.110%	16.855	-17.155	-50.442%	49.849	-0.021	-0.042%
keyboard	5.0	25.78	-21.03	-44.926%	15.789	-18.221	-53.574%	50.553	0.683	1.369%
spell_error	5.0	28.07	-18.74	-40.034%	19.28	-14.73	-43.312%	50.596	0.726	1.455%
random_char_insert	5.0	27.32	-19.49	-41.636%	18.19	-15.82	-46.514%	49.835	-0.035	-0.070%
random_char_replace	5.0	26.41	-20.4	-43.580%	17.721	-16.289	-47.894%	50.395	0.525	1.052%
random_char_swap	5.0	25.71	-21.1	-45.076%	18.016	-15.994	-47.029%	49.519	-0.351	-0.704%
random_char_delete	5.0	26.47	-20.34	-43.452%	17.515	-16.495	-48.501%	49.95	0.08	0.160%
to_passive	5.0	43.64	-3.17	-6.772%	27.508	-6.502	-19.117%	49.706	-0.164	-0.329%
tense	5.0	46.64	-0.17	-0.363%	33.837	-0.173	-0.509%	49.821	-0.049	-0.099%
to_formal	5.0	46.62	-0.19	-0.406%	33.718	-0.292	-0.860%	49.95	0.08	0.160%
to_casual	5.0	43.71	-3.1	-6.623%	28.073	-5.937	-17.457%	49.978	0.108	0.218%
to_active	5.0	44.44	-2.37	-5.063%	31.778	-2.232	-6.564%	49.734	-0.136	-0.272%
double_denial	5.0	46.79	-0.02	-0.043%	34.012	0.002	0.005%	49.878	0.008	0.016%
insert_adv	5.0	45.23	-1.58	-3.375%	32.931	-1.079	-3.174%	49.964	0.094	0.189%
append_irr	5.0	35.62	-11.19	-23.905%	27.699	-6.311	-18.556%	50.165	0.295	0.592%
random_word_insert	5.0	43.28	-3.53	-7.541%	27.5	-6.51	-19.140%	50.452	0.582	1.167%
drop_nn	5.0	40.11	-6.7	-14.313%	24.789	-9.221	-27.112%	50.28	0.41	0.822%
drop_rand_one_nn	5.0	43.3	-3.51	-7.498%	30.728	-3.282	-9.649%	50.036	0.166	0.333%
drop_vb	5.0	44.87	-1.94	-4.144%	27.238	-6.772	-19.912%	50.022	0.152	0.304%
drop_vb_nn	5.0	41.13	-5.68	-12.134%	22.333	-11.677	-34.335%	50.151	0.281	0.563%
only_nn	5.0	27.59	-19.22	-41.060%	22.261	-11.749	-34.545%	50.251	0.381	0.764%
only_vb	5.0	38.75	-8.06	-17.219%	27.174	-6.836	-20.099%	50.28	0.41	0.822%
only_vb_nn	5.0	26.41	-20.4	-43.580%	24.384	-9.626	-28.304%	50.366	0.496	0.995%
drop_rand_one_vb	5.0	46.18	-0.63	-1.346%	29.909	-4.101	-12.057%	49.935	0.065	0.131%
drop_first	5.0	27.59	-19.22	-41.060%	26.96	-7.05	-20.730%	50.208	0.338	0.678%
drop_last	5.0	45.33	-1.48	-3.162%	31.778	-2.232	-6.564%	50.165	0.295	0.592%
drop_first_and_last	5.0	27.7	-19.11	-40.825%	26.467	-7.543	-22.179%	50.495	0.625	1.254%
shuffle_order	5.0	40.81	-6.0	-12.818%	30.601	-3.409	-10.023%	49.993	0.123	0.246%
random_word_delete	5.0	33.65	-13.16	-28.114%	24.813	-9.197	-27.042%	49.548	-0.322	-0.646%
swap_syn_word_emb	5.0	40.05	-6.76	-14.441%	24.924	-9.086	-26.714%	49.878	0.008	0.016%
swap_syn_word_net	5.0	39.41	-7.4	-15.809%	24.535	-9.475	-27.860%	50.366	0.496	0.995%
back_trans	5.0	45.95	-0.86	-1.837%	32.422	-1.588	-4.670%	49.835	-0.035	-0.070%
random_word_swap	5.0	44.71	-2.1	-4.486%	32.477	-1.533	-4.506%	49.706	-0.164	-0.329%
nonsense	5.0	24.93	-21.88	-46.742%	17.427	-16.583	-48.758%	49.404	-0.466	-0.934%

Table 41: Performance and decrease ratio of Single Adapter on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQ/		ar.	NLVI	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.73	-10.62	-16.251%	42.853	-11.287	-20.849%	59.796	-14.094	-19.074%
typos	1.0	56.85	-8.5	-13.007%	43.338	-10.802	-19.953%	71.437	-2.453	-3.320%
keyboard	1.0	55.66	-9.69	-14.828%	42.36	-11.78	-21.759%	70.59	-3.3	-4.466%
spell_error	1.0	56.68	-8.67	-13.267%	43.846	-10.294	-19.013%	70.245	-3.645	-4.932%
random_char_insert	1.0	51.87	-13.48	-20.627%	35.602	-18.538	-34.241%	66.6	-7.29	-9.866%
random_char_replace	1.0	48.35	-17.0	-26.014%	32.97	-21.17	-39.102%	63.93	-9.96	-13.480%
random_char_swap	1.0	41.63	-23.72	-36.297%	28.311	-25.829	-47.707%	59.94	-13.95	-18.880%
random_char_delete	1.0	49.24	-16.11	-24.652%	34.576	-19.564	-36.135%	64.963	-8.927	-12.081%
random_word_insert	1.0	65.74	0.39	0.597%	48.362	-5.778	-10.672%	73.977	0.087	0.118%
random_word_delete	1.0	65.62	0.27	0.413%	49.07	-5.07	-9.365%	72.772	-1.118	-1.514%
swap_syn_word_emb	1.0	55.58	-9.77	-14.950%	43.171	-10.969	-20.261%	68.48	-5.41	-7.322%
swap_syn_word_net	1.0	58.29	-7.06	-10.803%	44.268	-9.872	-18.235%	71.107	-2.783	-3.767%
random_word_swap	1.0	65.7	0.35	0.536%	49.777	-4.363	-8.058%	73.087	-0.803	-1.086%
			VQ.	A		GQ/	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	54.05	-11.3	-17.292%	39.044	-15.096	-27.883%	66.557	-7.333	-9.925%
typos	2.0	55.82	-9.53	-14.583%	40.086	-14.054	-25.959%	67.547	-6.343	-8.584%
keyboard	2.0	55.16	-10.19	-15.593%	39.235	-14.905	-27.530%	66.743	-7.147	-9.672%
spell_error	2.0	55.97	-9.38	-14.353%	40.491	-13.649	-25.210%	67.791	-6.099	-8.254%
random_char_insert	2.0	41.58	-23.77	-36.373%	27.166	-26.974	-49.822%	60.614	-13.276	-17.967%
random_char_replace	2.0	37.16	-28.19	-43.137%	24.758	-29.382	-54.271%	57.543	-16.347	-22.124%
random_char_swap	2.0	32.62	-32.73	-50.084%	21.633	-32.507	-60.042%	55.103	-18.787	-25.426%
random_char_delete	2.0	39.07	-26.28	-40.214%	26.499	-27.641	-51.055%	58.533	-15.357	-20.783%
random_word_insert	2.0	65.05	-0.3	-0.459%	45.389	-8.751	-16.164%	73.733	-0.157	-0.212%
random_word_delete	2.0	60.87	-4.48	-6.855%	44.888	-9.252	-17.089%	69.901	-3.989	-5.399%
swap_syn_word_emb	2.0	54.71	-10.64	-16.282%	39.156	-14.984	-27.677%	64.303	-9.587	-12.974%
swap_syn_word_net	2.0	57.61	-7.74	-11.844%	42.089	-12.051	-22.258%	69.011	-4.879	-6.603%
random_word_swap	2.0	65.1	-0.25	-0.383%	48.299	-5.841	-10.789%	72.47	-1.42	-1.921%
			VQ.	A		GQ/	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	49.17	-16.18	-24.759%	33.598	-20.542	-37.942%	63.298	-10.592	-14.334%
typos	3.0	51.1	-14.25	-21.806%	34.592	-19.548	-36.106%	65.25	-8.64	-11.692%
keyboard	3.0	49.38	-15.97	-24.438%	32.74	-21.4	-39.528%	63.614	-10.276	-13.907%
spell error	3.0	50.93	-14.42	-22.066%	33.916	-20.224	-37.354%	63.959	-9.931	-13.441%
random_char_insert	3.0	34.46	-30.89	-47.269%	23.541	-30.599	-56.518%	57.83	-16.06	-21.735%
random_char_replace	3.0	31.27	-34.08	-52.150%	21.18	-32.96	-60.880%	55.835	-18.055	-24.435%
random char swap	3.0	28.5	-36.85	-56.389%	20.099	-34.041	-62.877%	52.935	-20.955	-28.359%
random_char_delete	3.0	33.39	-31.96	-48.906%	23.016	-31.124	-57.487%	56.466	-17.424	-23.581%
random word insert	3.0	63.53	-1.82	-2.785%	42.471	-11.669	-21.553%	71.997	-1.893	-2.563%
random_word_delete	3.0	58.37	-6.98	-10.681%	41.104	-13.036	-24.079%	67.676	-6.214	-8.410%
				10.00170						
swap syn word emb			-14 68	-22 464%	34 401			19 914	-13936	-18 860%
swap_syn_word_emb	3.0	50.67	-14.68 -11.04	-22.464% -16.894%	34.401 37.979	-19.739	-36.459%	59.954 65.308	-13.936 -8 582	-18.860% -11.615%
swap_syn_word_emb swap_syn_word_net random_word_swap			-14.68 -11.04 -0.8	-22.464% -16.894% -1.224%	34.401 37.979 46.716			59.954 65.308 72.083	-13.936 -8.582 -1.807	-18.860% -11.615% -2.446%
swap_syn_word_net random_word_swap	3.0 3.0 3.0	50.67 54.31	-11.04 -0.8	-16.894% -1.224%	37.979	-19.739 -16.161 -7.424	-36.459% -29.850% -13.712%	65.308	-8.582 -1.807	-11.615% -2.446%
swap_syn_word_net	3.0 3.0	50.67 54.31	-11.04	-16.894% -1.224%	37.979	-19.739 -16.161	-36.459% -29.850% -13.712%	65.308	-8.582	-11.615% -2.446%
swap_syn_word_net random_word_swap	3.0 3.0 3.0 severity	50.67 54.31 64.55 Acc 42.41	-11.04 -0.8 VQ. Decrease -22.94	-16.894% -1.224% A Decrease Ratio -35.103%	37.979 46.716 Acc 28.947	-19.739 -16.161 -7.424 GQ/ Decrease -25.193	-36.459% -29.850% -13.712% A Decrease Ratio -46.532%	65.308 72.083 CIDer 58.677	-8.582 -1.807 NLVI Decrease -15.213	-11.615% -2.446% R Decrease Ratio -20.589%
swap_syn_word_net random_word_swap corruption ocr typos	3.0 3.0 3.0 severity 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13	-11.04 -0.8 VQ. Decrease -22.94 -23.22	-16.894% -1.224% A Decrease Ratio -35.103% -35.532%	37.979 46.716 Acc 28.947 28.359	-19.739 -16.161 -7.424 GQ/Decrease -25.193 -25.781	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619%	65.308 72.083 CIDer 58.677 60.916	-8.582 -1.807 NLVF Decrease -15.213 -12.974	-11.615% -2.446% R Decrease Ratio -20.589% -17.559%
swap_syn_word_net random_word_swap corruption	3.0 3.0 3.0 severity	50.67 54.31 64.55 Acc 42.41 42.13 39.82	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53	-16.894% -1.224% A Decrease Ratio -35.103%	37.979 46.716 Acc 28.947 28.359 26.045	-19.739 -16.161 -7.424 GQA Decrease -25.193 -25.781 -28.095	-36.459% -29.850% -13.712% A Decrease Ratio -46.532%	65.308 72.083 CIDer 58.677 60.916 60.428	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219%
swap_syn_word_net random_word_swap corruption ocr typos	3.0 3.0 3.0 severity 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13	-11.04 -0.8 VQ. Decrease -22.94 -23.22	-16.894% -1.224% A Decrease Ratio -35.103% -35.532%	37.979 46.716 Acc 28.947 28.359	-19.739 -16.161 -7.424 GQ/Decrease -25.193 -25.781	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619%	65.308 72.083 CIDer 58.677 60.916	-8.582 -1.807 NLVF Decrease -15.213 -12.974	-11.615% -2.446% R Decrease Ratio -20.589% -17.559%
swap_syn_word_net random_word_swap corruption ocr typos keyboard	3.0 3.0 3.0 severity 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067%	37.979 46.716 Acc 28.947 28.359 26.045	-19.739 -16.161 -7.424 GQA Decrease -25.193 -25.781 -28.095	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892%	65.308 72.083 CIDer 58.677 60.916 60.428	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error	3.0 3.0 3.0 severity 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715%	37.979 46.716 Acc 28.947 28.359 26.045 27.962	-19.739 -16.161 -7.424 Decrease -25.193 -25.781 -28.095 -26.178	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert	3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34 -34.93	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1	-19.739 -16.161 -7.424 Decrease -25.193 -25.781 -28.095 -26.178 -33.04	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919% -25.096%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42 27.58	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34 -34.93 -37.77	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451% -57.796%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1 19.272	-19.739 -16.161 -7.424 GQ/ Decrease -25.193 -25.781 -28.095 -26.178 -33.04 -34.868	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026% -64.404%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347 54.084	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543 -19.806	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919% -25.096% -26.805%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42 27.58 26.37 30.1	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34 -34.93 -37.77 -38.98	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451% -57.796% -59.648% -53.940%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1 19.272 19.105 21.235	-19.739 -16.161 -7.424 Decrease -25.193 -25.781 -28.095 -26.178 -33.04 -34.868 -35.035 -32.905	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026% -64.404% -64.712% -60.777%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347 54.084 52.591 54.371	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543 -19.806 -21.299 -19.519	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -25.096% -26.805% -28.826% -26.417%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_delete random_word_insert	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42 27.58 26.37	-11.04 -0.8 VQ Decrease -22.94 -23.22 -25.53 -23.34 -34.93 -37.77 -38.98 -35.25	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451% -57.796% -59.648% -53.940% -5.157%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1 19.272 19.105	-19.739 -16.161 -7.424 GQ/Decrease -25.193 -25.781 -28.095 -26.178 -33.04 -34.868 -35.035	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026% -64.404% -64.712% -60.777% -25.797%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347 54.084 52.591	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543 -19.806 -21.299	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919% -25.096% -26.805% -28.826% -26.417% -4.369%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42 27.58 26.37 30.1 61.98 53.05	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34 -34.93 -37.77 -38.98 -35.25 -3.37 -12.3	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451% -57.796% -59.648% -53.940% -5.157% -18.822%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1 19.272 19.105 21.235 40.173 36.317	-19.739 -16.161 -7.424 Decrease -25.193 -25.781 -28.095 -26.178 -33.04 -34.868 -35.035 -32.905 -13.967 -17.823	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026% -64.404% -64.712% -60.777% -25.797% -32.920%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347 54.084 52.591 70.662 66.126	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543 -19.806 -21.299 -19.519 -3.228 -7.764	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919% -25.096% -26.805% -28.826% -26.417% -4.369% -10.507%
swap_syn_word_net random_word_swap corruption ocr typos keyboard spell_error random_char_insert random_char_insert random_char_delete random_word_insert	3.0 3.0 3.0 3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	50.67 54.31 64.55 Acc 42.41 42.13 39.82 42.01 30.42 27.58 26.37 30.1 61.98	-11.04 -0.8 VQ. Decrease -22.94 -23.22 -25.53 -23.34 -34.93 -37.77 -38.98 -35.25 -3.37	-16.894% -1.224% A Decrease Ratio -35.103% -35.532% -39.067% -35.715% -53.451% -57.796% -59.648% -53.940% -5.157%	37.979 46.716 Acc 28.947 28.359 26.045 27.962 21.1 19.272 19.105 21.235 40.173	-19.739 -16.161 -7.424 GQ/ Decrease -25.193 -25.781 -28.095 -26.178 -33.04 -34.868 -35.035 -32.905 -13.967	-36.459% -29.850% -13.712% A Decrease Ratio -46.532% -47.619% -51.892% -48.353% -61.026% -64.404% -64.712% -60.777% -25.797%	65.308 72.083 CIDer 58.677 60.916 60.428 59.911 55.347 54.084 52.591 70.662	-8.582 -1.807 NLVI Decrease -15.213 -12.974 -13.462 -13.979 -18.543 -19.806 -21.299 -19.519 -3.228	-11.615% -2.446% R Decrease Ratio -20.589% -17.559% -18.219% -18.919% -25.096% -26.805% -28.826% -26.417% -4.369%

Table 42: Performance and decrease ratio of Single Adapter on CLIP-BART against text corruptions given severity 5.

	severity		VQ	A		GQ.	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	39.25	-26.1	-39.939%	26.475	-27.665	-51.099%	56.696	-17.194	-23.270%
punctuation	5.0	65.22	-0.13	-0.199%	49.658	-4.482	-8.278%	74.264	0.374	0.507%
typos	5.0	29.93	-35.42	-54.200%	20.671	-33.469	-61.819%	54.256	-19.634	-26.572%
keyboard	5.0	27.5	-37.85	-57.919%	19.232	-34.908	-64.477%	52.849	-21.041	-28.476%
spell_error	5.0	35.31	-30.04	-45.968%	23.772	-30.368	-56.092%	55.993	-17.897	-24.222%
random_char_insert	5.0	27.2	-38.15	-58.378%	19.121	-35.019	-64.683%	54.055	-19.835	-26.844%
random_char_replace	5.0	25.61	-39.74	-60.811%	18.516	-35.624	-65.799%	51.931	-21.959	-29.719%
random_char_swap	5.0	25.41	-39.94	-61.117%	19.351	-34.789	-64.257%	53.552	-20.338	-27.524%
random_char_delete	5.0	27.41	-37.94	-58.057%	20.21	-33.93	-62.671%	52.519	-21.371	-28.923%
to_passive	5.0	61.93	-3.42	-5.233%	45.357	-8.783	-16.223%	71.753	-2.137	-2.893%
tense	5.0	64.96	-0.39	-0.597%	50.151	-3.989	-7.368%	73.805	-0.085	-0.115%
to_formal	5.0	65.45	0.1	0.153%	49.626	-4.514	-8.337%	73.346	-0.544	-0.737%
to_casual	5.0	62.54	-2.81	-4.300%	46.144	-7.996	-14.769%	72.241	-1.649	-2.232%
to_active	5.0	63.97	-1.38	-2.112%	48.911	-5.229	-9.659%	73.518	-0.372	-0.503%
double_denial	5.0	65.67	0.32	0.490%	50.421	-3.719	-6.869%	73.862	-0.028	-0.037%
insert_adv	5.0	62.13	-3.22	-4.927%	46.987	-7.153	-13.212%	72.212	-1.678	-2.271%
append_irr	5.0	60.64	-4.71	-7.207%	44.212	-9.928	-18.337%	67.346	-6.544	-8.856%
random_word_insert	5.0	57.72	-7.63	-11.676%	36.111	-18.029	-33.301%	69.671	-4.219	-5.709%
drop_nn	5.0	47.26	-18.09	-27.682%	33.185	-20.955	-38.705%	64.188	-9.702	-13.130%
drop_rand_one_nn	5.0	58.25	-7.1	-10.865%	43.576	-10.564	-19.512%	72.398	-1.492	-2.019%
drop_vb	5.0	60.07	-5.28	-8.080%	42.487	-11.653	-21.524%	71.796	-2.094	-2.834%
drop_vb_nn	5.0	47.72	-17.63	-26.978%	32.088	-22.052	-40.732%	61.777	-12.113	-16.393%
only_nn	5.0	38.19	-27.16	-41.561%	25.561	-28.579	-52.788%	55.289	-18.601	-25.174%
only_vb	5.0	53.34	-12.01	-18.378%	37.725	-16.415	-30.320%	67.03	-6.86	-9.284%
only_vb_nn	5.0	43.62	-21.73	-33.252%	28.582	-25.558	-47.208%	58.461	-15.429	-20.881%
drop_rand_one_vb	5.0	64.17	-1.18	-1.806%	47.241	-6.899	-12.742%	73.13	-0.76	-1.028%
drop_first	5.0	61.73	-3.62	-5.539%	44.069	-10.071	-18.602%	73.13	-0.76	-1.028%
drop_last	5.0	55.02	-10.33	-15.807%	43.346	-10.794	-19.938%	70.949	-2.941	-3.981%
drop_first_and_last	5.0	49.3	-16.05	-24.560%	37.176	-16.964	-31.334%	69.399	-4.491	-6.079%
shuffle_order	5.0	62.05	-3.3	-5.050%	40.865	-13.275	-24.520%	69.485	-4.405	-5.962%
random_word_delete	5.0	47.16	-18.19	-27.835%	31.905	-22.235	-41.070%	63.93	-9.96	-13.480%
swap_syn_word_emb	5.0	46.35	-19.0	-29.074%	29.806	-24.334	-44.946%	58.375	-15.515	-20.997%
swap_syn_word_net	5.0	47.7	-17.65	-27.008%	34.449	-19.691	-36.370%	60.055	-13.835	-18.724%
back_trans	5.0	62.29	-3.06	-4.682%	46.629	-7.511	-13.873%	73.087	-0.803	-1.086%
random_word_swap	5.0	63.78	-1.57	-2.402%	44.896	-9.244	-17.075%	72.183	-1.707	-2.310%
nonsense	5.0	0.09	-65.26	-99.862%	0.0	-54.14	-100.000%	51.342	-22.548	-30.516%

Table 43: Performance and decrease ratio of Single Compacter on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQA			NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.28	-10.19	-15.806%	41.779	-11.121	-21.022%	56.122	-13.818	-19.757%
typos	1.0	56.27	-8.2	-12.719%	43.171	-9.729	-18.392%	68.236	-1.704	-2.436%
keyboard	1.0	55.05	-9.42	-14.611%	42.145	-10.755	-20.331%	67.447	-2.493	-3.565%
spell_error	1.0	55.9	-8.57	-13.293%	42.892	-10.008	-18.918%	67.92	-2.02	-2.888%
random_char_insert	1.0	51.37	-13.1	-20.320%	35.427	-17.473	-33.030%	64.633	-5.307	-7.588%
random_char_replace	1.0	47.83	-16.64	-25.810%	33.002	-19.898	-37.614%	62.222	-7.718	-11.035%
random_char_swap	1.0	41.69	-22.78	-35.334%	27.962	-24.938	-47.143%	57.815	-12.125	-17.336%
random_char_delete	1.0	49.17	-15.3	-23.732%	34.743	-18.157	-34.323%	62.452	-7.488	-10.707%
random_word_insert	1.0	64.38	-0.09	-0.140%	48.322	-4.578	-8.653%	70.418	0.478	0.683%
random_word_delete	1.0	64.36	-0.11	-0.171%	48.593	-4.307	-8.142%	69.427	-0.513	-0.733%
swap_syn_word_emb	1.0	54.63	-9.84	-15.263%	42.741	-10.159	-19.204%	65.767	-4.173	-5.966%
swap_syn_word_net	1.0	56.92	-7.55	-11.711%	43.918	-8.982	-16.979%	67.662	-2.278	-3.257%
random_word_swap	1.0	64.34	-0.13	-0.202%	49.014	-3.886	-7.346%	69.686	-0.254	-0.364%
corruption	severity		VQ.			GQA			NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	53.82	-10.65	-16.519%	39.251	-13.649	-25.801%	63.657	-6.283	-8.983%
typos	2.0	55.05	-9.42	-14.611%	40.142	-12.758	-24.118%	64.92	-5.02	-7.177%
keyboard	2.0	54.56	-9.91	-15.371%	38.893	-14.007	-26.478%	64.992	-4.948	-7.074%
spell_error	2.0	55.03	-9.44	-14.642%	40.626	-12.274	-23.201%	64.432	-5.508	-7.875%
random_char_insert	2.0	41.58	-22.89	-35.505%	27.238	-25.662	-48.510%	59.567	-10.373	-14.832%
random_char_replace	2.0	36.69	-27.78	-43.090%	24.058	-28.842	-54.522%	56.897	-13.043	-18.649%
random_char_swap	2.0	32.41	-32.06	-49.729%	22.229	-30.671	-57.979%	54.93	-15.01	-21.461%
random_char_delete	2.0	38.9	-25.57	-39.662%	26.697	-26.203	-49.532%	57.126	-12.814	-18.321%
random_word_insert	2.0	63.54	-0.93	-1.443%	45.516	-7.384	-13.958%	70.332	0.392	0.560%
random_word_delete	2.0	59.56	-4.91	-7.616%	43.711	-9.189	-17.370%	67.82	-2.12	-3.032%
swap_syn_word_emb	2.0 2.0	53.58	-10.89	-16.892%	39.513	-13.387	-25.305%	61.49	-8.45	-12.082%
swap_syn_word_net random word swap	2.0	56.45 63.41	-8.02 -1.06	-12.440% -1.644%	41.803 47.201	-11.097 -5.699	-20.977% -10.772%	65.207 69.04	-4.733 -0.9	-6.767% -1.287%
Tandoni_word_swap	2.0	03.41			47.201	-3.099	-10.77276	09.04		
corruption	severity		VQ.			GQ/		CITO	NLVF	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	49.39	-15.08	-23.391%	33.455	-19.445	-36.758%	59.739	-10.201	-14.586%
typos	3.0	50.46	-14.01	-21.731%	34.576	-18.324	-34.638%	62.81	-7.13	-10.194%
keyboard	3.0	49.29	-15.18	-23.546%	32.724	-20.176	-38.140%	62.078	-7.862	-11.241%
spell_error	3.0	50.28	-14.19	-22.010%	34.195	-18.705	-35.360%	61.849	-8.091	-11.569%
random_char_insert	3.0	34.67	-29.8	-46.223%	23.263	-29.637	-56.025%	56.524	-13.416	-19.183%
random_char_replace	3.0	30.24	-34.23	-53.094%	20.687	-32.213	-60.894%	54.83	-15.11	-21.604%
random_char_swap	3.0	28.78	-35.69	-55.359%	20.329	-32.571	-61.571%	52.232	-17.708	-25.319%
random_char_delete	3.0	33.24	-31.23	-48.441%	23.318	-29.582	-55.920%	54.414	-15.526	-22.200%
random_word_insert	3.0	62.35	-2.12	-3.288%	42.407	-10.493	-19.835%	69.255	-0.685	-0.979%
random_word_delete	3.0	57.35	-7.12	-11.044%	40.817	-12.083	-22.841%	65.494	-4.446	-6.356%
swap_syn_word_emb	3.0	50.21	-14.26	-22.119%	34.179	-18.721	-35.390%	59.265	-10.675	-15.263%
swap_syn_word_net random_word_swap	3.0 3.0	53.02 62.96	-11.45 -1.51	-17.760% -2.342%	38.297 46.224	-14.603 -6.676	-27.605% -12.621%	62.193 69.255	-7.747 -0.685	-11.076% -0.979%
Tandoni_word_swap	3.0	02.90			40.224			09.233		
corruption	severity		VQ.			GQ/		CID	NLVF	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	4.0	42.76	-21.71	-33.675%	29.067	-23.833	-45.054%	56.28	-13.66	-19.532%
typos	4.0	42.49	-21.98	-34.093%	28.033	-24.867	-47.007%	58.677	-11.263	-16.104%
spell_error	4.0	42.41	-22.06	-34.217%	28.073	-24.827	-46.932%	58.16	-11.78	-16.843%
random_char_insert	4.0	30.63	-33.84	-52.490%	20.719	-32.181	-60.834%	54.988	-14.952	-21.379%
random_char_replace	4.0	26.52	-37.95	-58.865%	18.079	-34.821	-65.824%	52.978	-16.962	-24.252%
random_char_swap	4.0	26.33	-38.14	-59.159%	19.288	-33.612	-63.539%	53.194	-16.746	-23.944%
random_char_delete	4.0	29.97	-34.5	-53.513%	20.981	-31.919	-60.338%	53.323	-16.617	-23.759%
random_word_insert	4.0	60.56	-3.91 -12.92	-6.065%	40.237	-12.663	-23.938%	68.365	-1.575	-2.252%
1 1 1 1 1 1				-20.040%	35.077	-17.823	-33.692%	63.428	-6.512	-9.311%
random_word_delete	4.0	51.55					40.7250	EQ 102	11 020	16 0050
swap_syn_word_emb	4.0	46.5	-17.97	-27.873%	31.356	-21.544	-40.725%	58.102	-11.838	-16.925%
swap_syn_word_emb swap_syn_word_net	4.0 4.0	46.5 49.65	-17.97 -14.82	-27.873% -22.987%	31.356 35.952	-21.544 -16.948	-32.038%	59.251	-10.689	-15.283%
swap_syn_word_emb	4.0	46.5	-17.97	-27.873%	31.356	-21.544				

Table 44: Performance and decrease ratio of Single Compacter on CLIP-BART against text corruptions given severity 5.

	٠.		VQ.	A		GQ.	A		NLVF	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	40.14	-24.33	-37.738%	26.475	-26.425	-49.953%	54.988	-14.952	-21.379%
punctuation	5.0	64.18	-0.29	-0.450%	48.768	-4.132	-7.812%	69.858	-0.082	-0.117%
typos	5.0	30.66	-33.81	-52.443%	20.83	-32.07	-60.624%	52.146	-17.794	-25.442%
keyboard	5.0	27.91	-36.56	-56.709%	18.922	-33.978	-64.231%	51.931	-18.009	-25.750%
spell_error	5.0	36.05	-28.42	-44.083%	24.09	-28.81	-54.462%	55.461	-14.479	-20.701%
random_char_insert	5.0	27.56	-36.91	-57.251%	19.447	-33.453	-63.239%	53.825	-16.115	-23.041%
random_char_replace	5.0	24.0	-40.47	-62.773%	16.529	-36.371	-68.755%	52.246	-17.694	-25.298%
random_char_swap	5.0	25.68	-38.79	-60.168%	20.122	-32.778	-61.961%	52.863	-17.077	-24.416%
random_char_delete	5.0	27.65	-36.82	-57.112%	19.86	-33.04	-62.457%	52.347	-17.593	-25.155%
to_passive	5.0	59.84	-4.63	-7.182%	44.761	-8.139	-15.386%	68.638	-1.302	-1.862%
tense	5.0	63.67	-0.8	-1.241%	49.459	-3.441	-6.504%	70.159	0.219	0.314%
to_formal	5.0	63.94	-0.53	-0.822%	48.879	-4.021	-7.601%	69.973	0.033	0.047%
to_casual	5.0	60.54	-3.93	-6.096%	45.572	-7.328	-13.853%	68.652	-1.288	-1.841%
to_active	5.0	62.53	-1.94	-3.009%	47.798	-5.102	-9.645%	69.528	-0.412	-0.589%
double_denial	5.0	64.43	-0.04	-0.062%	49.754	-3.146	-5.948%	69.944	0.004	0.006%
insert_adv	5.0	60.74	-3.73	-5.786%	45.588	-7.312	-13.823%	68.997	-0.943	-1.349%
append_irr	5.0	59.21	-5.26	-8.159%	43.171	-9.729	-18.392%	63.715	-6.225	-8.901%
random_word_insert	5.0	56.42	-8.05	-12.486%	36.484	-16.416	-31.031%	67.906	-2.034	-2.908%
drop_nn	5.0	47.12	-17.35	-26.912%	32.732	-20.168	-38.125%	63.815	-6.125	-8.757%
drop_rand_one_nn	5.0	57.7	-6.77	-10.501%	43.568	-9.332	-17.641%	69.241	-0.699	-1.000%
drop_vb	5.0	58.63	-5.84	-9.058%	42.447	-10.453	-19.760%	68.724	-1.216	-1.739%
drop_vb_nn	5.0	46.33	-18.14	-28.137%	30.72	-22.18	-41.928%	61.045	-8.895	-12.718%
only_nn	5.0	37.29	-27.18	-42.159%	23.072	-29.828	-56.386%	53.567	-16.373	-23.410%
only_vb	5.0	51.79	-12.68	-19.668%	36.19	-16.71	-31.588%	63.873	-6.067	-8.675%
only_vb_nn	5.0	41.8	-22.67	-35.164%	25.783	-27.117	-51.261%	56.581	-13.359	-19.101%
drop_rand_one_vb	5.0	62.38	-2.09	-3.242%	46.812	-6.088	-11.509%	69.614	-0.326	-0.466%
drop_first	5.0	59.78	-4.69	-7.275%	43.075	-9.825	-18.572%	69.772	-0.168	-0.241%
drop_last	5.0	54.38	-10.09	-15.651%	43.306	-9.594	-18.137%	67.891	-2.049	-2.929%
drop_first_and_last	5.0	47.38	-17.09	-26.508%	37.224	-15.676	-29.634%	66.987	-2.953	-4.222%
shuffle_order	5.0	59.98	-4.49	-6.964%	39.378	-13.522	-25.561%	66.14	-3.8	-5.433%
random_word_delete	5.0	46.11	-18.36	-28.478%	31.332	-21.568	-40.770%	62.696	-7.244	-10.358%
swap_syn_word_emb	5.0	45.82	-18.65	-28.928%	30.529	-22.371	-42.288%	57.844	-12.096	-17.295%
swap_syn_word_net	5.0	46.94	-17.53	-27.191%	34.433	-18.467	-34.909%	57.643	-12.297	-17.582%
back_trans	5.0	60.83	-3.64	-5.646%	46.224	-6.676	-12.621%	68.925	-1.015	-1.451%
random_word_swap	5.0	61.84	-2.63	-4.079%	43.878	-9.022	-17.054%	68.078	-1.862	-2.662%
nonsense	5.0	1.04	-63.43	-98.387%	0.922	-51.978	-98.257%	51.127	-18.813	-26.899%

Table 45: Performance and decrease ratio of Single LoRA on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQ/		arn	NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.03	-11.31	-17.309%	41.294	-11.896	-22.364%	57.586	-15.994	-21.737%
typos	1.0	55.93	-9.41	-14.402%	42.36	-10.83	-20.362%	71.064	-2.516	-3.420%
keyboard	1.0	54.74	-10.6	-16.223%	41.278	-11.912	-22.394%	69.815	-3.765	-5.117%
spell_error	1.0	55.81	-9.53	-14.585%	42.956	-10.234	-19.241%	69.04	-4.54	-6.170%
random_char_insert	1.0	50.69	-14.65	-22.421%	34.457	-18.733	-35.219%	65.064	-8.516	-11.574%
random_char_replace	1.0	47.61	-17.73	-27.135%	31.754	-21.436	-40.301%	62.724	-10.856	-14.754%
random_char_swap	1.0	41.04	-24.3	-37.190%	27.413	-25.777	-48.462%	59.523	-14.057	-19.104%
random_char_delete	1.0	49.16	-16.18	-24.763%	33.877	-19.313	-36.310%	63.499	-10.081	-13.700%
random_word_insert	1.0	65.29	-0.05	-0.077%	47.09	-6.1	-11.468%	72.714	-0.866	-1.177%
random_word_delete	1.0	65.24	-0.1	-0.153%	48.243	-4.947	-9.301%	72.427	-1.153	-1.567%
swap_syn_word_emb	1.0	55.15	-10.19	-15.595%	42.407	-10.783	-20.272%	67.762	-5.818	-7.907%
swap_syn_word_net	1.0	57.75	-7.59	-11.616%	43.584	-9.606	-18.060%	71.336	-2.244	-3.049%
random_word_swap	1.0	65.29	-0.05	-0.077%	48.68	-4.51	-8.479%	73.331	-0.249	-0.338%
			VQ.	A		GQ/	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	53.46	-11.88	-18.182%	38.305	-14.885	-27.985%	65.609	-7.971	-10.833%
typos	2.0	55.05	-10.29	-15.748%	39.935	-13.255	-24.920%	66.758	-6.822	-9.272%
keyboard	2.0	54.0	-11.34	-17.355%	38.098	-15.092	-28.373%	66.815	-6.765	-9.194%
spell_error	2.0	55.24	-10.1	-15.458%	39.394	-13.796	-25.937%	66.499	-7.081	-9.623%
random_char_insert	2.0	40.12	-25.22	-38.598%	25.441	-27.749	-52.169%	59.236	-14.344	-19.494%
random_char_replace	2.0	35.78	-29.56	-45.240%	23.159	-30.031	-56.459%	57.414	-16.166	-21.971%
random_char_swap	2.0	32.25	-33.09	-50.643%	20.981	-32.209	-60.554%	54.701	-18.879	-25.658%
random_char_delete	2.0	38.83	-26.51	-40.572%	26.713	-26.477	-49.778%	57.83	-15.75	-21.406%
random_word_insert	2.0	63.88	-1.46	-2.234%	42.956	-10.234	-19.241%	71.509	-2.071	-2.815%
random_word_delete	2.0	59.92	-5.42	-8.295%	43.409	-9.781	-18.389%	69.399	-4.181	-5.683%
swap_syn_word_emb	2.0	54.19	-11.15	-17.065%	39.021	-14.169	-26.639%	62.452	-11.128	-15.124%
swap_syn_word_net	2.0	56.9	-8.44	-12.917%	41.342	-11.848	-22.275%	67.963	-5.617	-7.634%
random_word_swap	2.0	64.48	-0.86	-1.316%	47.027	-6.163	-11.588%	72.312	-1.268	-1.723%
			VQ.	A		GQ.	4		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	48.98	-16.36	-25.038%	31.643	-21.547	-40.510%	61.002	-12.578	-17.095%
typos	3.0	50.0	-15.34	-23.477%	33.082	-20.108	-37.805%	64.117	-9.463	-12.861%
keyboard	3.0	48.27	-17.07	-26.125%	31.643	-21.547	-40.510%	62.954	-10.626	-14.442%
spell_error	3.0	50.1	-15.24	-23.324%	33.018	-20.172	-37.924%	63.413	-10.167	-13.817%
random_char_insert	3.0	32.75	-32.59	-49.878%	21.697	-31.493	-59.209%	56.323	-17.257	-23.454%
random_char_replace	3.0	29.42	-35.92	-54.974%	19.343	-33.847	-63.634%	54.93	-18.65	-25.346%
random char swap	3.0	28.46	-36.88	-56.443%	19.407	-33.783	-63.514%	52.304	-21.276	-28.916%
random_char_delete	3.0	33.02	-32.32	-49.464%	22,452	-30,738	-57.789%	54.672	-18.908	-25.697%
random word insert	3.0	61.85	-3.49	-5.341%	39.521	-13.669	-25.698%	69.915	-3.665	-4.981%
random_word_delete	3.0	57.35	-7.99	-12.228%	39.696	-13.494	-25.369%	67.332	-6.248	-8.492%
swap_syn_word_emb	3.0	50.31	-15.03	-23.003%	33,408	-19.782	-37.192%	59.724	-13.856	-18.831%
swap_syn_word_net	3.0	53.93	-11.41	-17.463%	37.534	-15.656	-29.435%	64.791	-8.789	-11.945%
random_word_swap	3.0	63.77	-1.57	-2.403%	45.866	-7.324	-13.770%	71.953	-1.627	-2.211%
random_word_swap	3.0			-2.403%	45.866	-7.324	-13.770%	71.953	-1.627 NLVF	
			-1.57 VQ. Decrease	-2.403%	45.866 Acc		-13.770%	71.953 CIDer		₹
random_word_swap	3.0 severity 4.0	63.77 Acc 42.16	VQ. Decrease -23.18	-2.403% A Decrease Ratio -35.476%	Acc 27.238	-7.324 GQA Decrease -25.952	-13.770% A Decrease Ratio -48.791%	CIDer 57.528	NLVF Decrease -16.052	Page 12.815%
corruption ocr typos	3.0 severity 4.0 4.0	Acc 42.16 41.83	VQ. Decrease -23.18 -23.51	-2.403% A Decrease Ratio -35.476% -35.981%	Acc 27.238 27.103	-7.324 GQA Decrease -25.952 -26.087	-13.770% A Decrease Ratio -48.791% -49.045%	CIDer 57.528 60.212	NLVF Decrease -16.052 -13.368	Decrease Ratio -21.815% -18.167%
corruption ocr	3.0 severity 4.0 4.0 4.0	Acc 42.16 41.83 39.16	VQ. Decrease -23.18 -23.51 -26.18	-2.403% A Decrease Ratio -35.476% -35.981% -40.067%	Acc 27.238 27.103 25.052	-7.324 GQA Decrease -25.952 -26.087 -28.138	-13.770% A Decrease Ratio -48.791% -49.045% -52.902%	CIDer 57.528 60.212 59.782	NLVF Decrease -16.052 -13.368 -13.798	Decrease Ratio -21.815% -18.167% -18.753%
corruption ocr typos	3.0 severity 4.0 4.0	Acc 42.16 41.83	VQ. Decrease -23.18 -23.51	-2.403% A Decrease Ratio -35.476% -35.981%	Acc 27.238 27.103	-7.324 GQA Decrease -25.952 -26.087	-13.770% A Decrease Ratio -48.791% -49.045%	CIDer 57.528 60.212	NLVF Decrease -16.052 -13.368	Decrease Ratio -21.815% -18.167%
corruption ocr typos keyboard	3.0 severity 4.0 4.0 4.0	Acc 42.16 41.83 39.16	VQ. Decrease -23.18 -23.51 -26.18	-2.403% A Decrease Ratio -35.476% -35.981% -40.067%	Acc 27.238 27.103 25.052	-7.324 GQA Decrease -25.952 -26.087 -28.138	-13.770% A Decrease Ratio -48.791% -49.045% -52.902%	CIDer 57.528 60.212 59.782	NLVF Decrease -16.052 -13.368 -13.798	Decrease Ratio -21.815% -18.167% -18.753%
corruption ocr typos keyboard spell_error	3.0 severity 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9	VQ. Decrease -23.18 -23.51 -26.18 -23.44	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874%	Acc 27.238 27.103 25.052 27.866	-7.324 GQA Decrease -25.952 -26.087 -28.138 -25.324	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610%	CIDer 57.528 60.212 59.782 58.949	NLVF Decrease -16.052 -13.368 -13.798 -14.631	Decrease Ratio -21.815% -18.167% -18.753% -19.884%
corruption ocr typos keyboard spell_error random_char_insert	3.0 severity 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382%	Acc 27.238 27.103 25.052 27.866 18.914	-7.324 GQ/ Decrease -25.952 -26.087 -28.138 -25.324 -34.276	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441%	CIDer 57.528 60.212 59.782 58.949 54.112	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458%
corruption ocr typos keyboard spell_error random_char_insert random_char_swap	3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5 25.34	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84 -40.0	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382% -61.218%	Acc 27.238 27.103 25.052 27.866 18.914 16.394	-7.324 GQ/ Decrease -25.952 -26.087 -28.138 -25.324 -34.276 -36.796	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441% -69.179% -65.562%	CIDer 57.528 60.212 59.782 58.949 54.112 53.495	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468 -20.085	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458% -27.297%
corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5 25.34 25.75 29.86	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84 -40.0 -39.59 -35.48	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382% -61.218% -60.591% -54.301%	Acc 27.238 27.103 25.052 27.866 18.914 16.394 18.318 20.091	-7.324 GQA Decrease -25.952 -26.087 -28.138 -25.324 -34.276 -36.796 -34.872 -33.099	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441% -69.179% -65.562% -62.229%	CIDer 57.528 60.212 59.782 58.949 54.112 53.495 53.021 53.596	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468 -20.085 -20.559	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458% -27.297% -27.940% -27.160%
corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert	3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5 25.34 25.75	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84 -40.0 -39.59	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382% -61.218% -60.591% -54.301% -9.412%	Acc 27.238 27.103 25.052 27.866 18.914 16.394 18.318	-7.324 GQA Decrease -25.952 -26.087 -28.138 -25.324 -34.276 -36.796 -34.872	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441% -69.179% -65.562%	CIDer 57.528 60.212 59.782 58.949 54.112 53.495 53.021	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468 -20.085 -20.559 -19.984	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458% -27.297% -27.940% -27.160% -6.092%
corruption ocr typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete	3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5 25.34 25.75 29.86 59.19 51.52	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84 -40.0 -39.59 -35.48 -6.15 -13.82	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382% -61.218% -60.591% -54.301% -9.412% -21.151%	Acc 27.238 27.103 25.052 27.866 18.914 16.394 18.318 20.091 36.421 34.568	-7.324 GQ/Decrease -25.952 -26.087 -28.138 -25.324 -34.276 -36.796 -34.872 -33.099 -16.769 -18.622	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441% -69.179% -65.562% -62.229% -31.527% -35.010%	CIDer 57.528 60.212 59.782 58.949 54.112 53.495 53.021 53.596 69.097 65.581	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468 -20.085 -20.559 -19.984 -4.483 -7.999	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458% -27.297% -27.940% -27.160% -6.092% -10.872%
corruption ocr typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert	3.0 severity 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Acc 42.16 41.83 39.16 41.9 28.5 25.34 25.75 29.86 59.19	VQ. Decrease -23.18 -23.51 -26.18 -23.44 -36.84 -40.0 -39.59 -35.48 -6.15	-2.403% A Decrease Ratio -35.476% -35.981% -40.067% -35.874% -56.382% -61.218% -60.591% -54.301% -9.412%	Acc 27.238 27.103 25.052 27.866 18.914 16.394 18.318 20.091 36.421	-7.324 GQ2 Decrease -25.952 -26.087 -28.138 -25.324 -34.276 -36.796 -34.872 -33.099 -16.769	-13.770% A Decrease Ratio -48.791% -49.045% -52.902% -47.610% -64.441% -69.179% -65.562% -62.229% -31.521%	CIDer 57.528 60.212 59.782 58.949 54.112 53.495 53.021 53.596 69.097	NLVF Decrease -16.052 -13.368 -13.798 -14.631 -19.468 -20.085 -20.559 -19.984 -4.483	Decrease Ratio -21.815% -18.167% -18.753% -19.884% -26.458% -27.297% -27.940% -27.160% -6.092%

Table 46: Performance and decrease ratio of Single LoRA on CLIP-BART against text corruptions given severity 5.

	severity		VQ	A		GQ.	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	38.86	-26.48	-40.526%	24.837	-28.353	-53.305%	55.519	-18.061	-24.546%
punctuation	5.0	64.49	-0.85	-1.301%	48.37	-4.82	-9.062%	72.987	-0.593	-0.806%
typos	5.0	29.97	-35.37	-54.132%	20.902	-32.288	-60.704%	52.519	-21.061	-28.623%
keyboard	5.0	27.27	-38.07	-58.264%	18.691	-34.499	-64.859%	51.17	-22.41	-30.457%
spell_error	5.0	35.33	-30.01	-45.929%	23.43	-29.76	-55.951%	55.375	-18.205	-24.741%
random_char_insert	5.0	25.29	-40.05	-61.295%	17.244	-35.946	-67.580%	53.194	-20.386	-27.706%
random_char_replace	5.0	21.98	-43.36	-66.361%	14.676	-38.514	-72.408%	51.399	-22.181	-30.145%
random_char_swap	5.0	25.14	-40.2	-61.524%	18.946	-34.244	-64.381%	52.088	-21.492	-29.208%
random_char_delete	5.0	27.67	-37.67	-57.652%	19.391	-33.799	-63.544%	51.916	-21.664	-29.443%
to_passive	5.0	62.35	-2.99	-4.576%	44.896	-8.294	-15.593%	71.537	-2.043	-2.776%
tense	5.0	64.42	-0.92	-1.408%	48.823	-4.367	-8.210%	73.26	-0.32	-0.435%
to_formal	5.0	64.85	-0.49	-0.750%	48.37	-4.82	-9.062%	73.331	-0.249	-0.338%
to_casual	5.0	61.93	-3.41	-5.219%	45.365	-7.825	-14.712%	71.882	-1.698	-2.308%
to_active	5.0	63.44	-1.9	-2.908%	47.519	-5.671	-10.661%	72.7	-0.88	-1.196%
double_denial	5.0	65.29	-0.05	-0.077%	49.229	-3.961	-7.447%	73.59	0.01	0.013%
insert_adv	5.0	60.31	-5.03	-7.698%	44.928	-8.262	-15.534%	71.178	-2.402	-3.264%
append_irr	5.0	56.4	-8.94	-13.682%	40.475	-12.715	-23.904%	66.054	-7.526	-10.228%
random_word_insert	5.0	53.97	-11.37	-17.401%	32.04	-21.15	-39.763%	67.203	-6.377	-8.667%
drop_nn	5.0	45.29	-20.05	-30.686%	30.068	-23.122	-43.470%	63.629	-9.951	-13.525%
drop_rand_one_nn	5.0	57.52	-7.82	-11.968%	41.859	-11.331	-21.303%	71.81	-1.77	-2.406%
drop_vb	5.0	56.85	-8.49	-12.994%	37.407	-15.783	-29.674%	70.188	-3.392	-4.610%
drop_vb_nn	5.0	42.7	-22.64	-34.650%	26.435	-26.755	-50.301%	60.456	-13.124	-17.836%
only_nn	5.0	30.67	-34.67	-53.061%	17.324	-35.866	-67.430%	54.873	-18.707	-25.424%
only_vb	5.0	50.27	-15.07	-23.064%	35.332	-17.858	-33.575%	67.346	-6.234	-8.472%
only_vb_nn	5.0	36.27	-29.07	-44.490%	20.512	-32.678	-61.436%	57.414	-16.166	-21.971%
drop_rand_one_vb	5.0	62.12	-3.22	-4.928%	44.339	-8.851	-16.640%	72.183	-1.397	-1.898%
drop_first	5.0	53.88	-11.46	-17.539%	35.936	-17.254	-32.439%	72.154	-1.426	-1.937%
drop_last	5.0	53.97	-11.37	-17.401%	42.01	-11.18	-21.019%	69.844	-3.736	-5.078%
drop_first_and_last	5.0	40.95	-24.39	-37.328%	29.814	-23.376	-43.948%	68.179	-5.401	-7.341%
shuffle_order	5.0	60.39	-4.95	-7.576%	38.019	-15.171	-28.523%	68.494	-5.086	-6.912%
random_word_delete	5.0	45.97	-19.37	-29.645%	30.394	-22.796	-42.857%	63.069	-10.511	-14.285%
swap_syn_word_emb	5.0	45.85	-19.49	-29.829%	29.44	-23.75	-44.651%	57.571	-16.009	-21.757%
swap_syn_word_net	5.0	47.78	-17.56	-26.875%	33.749	-19.441	-36.549%	59.423	-14.157	-19.240%
back_trans	5.0	61.59	-3.75	-5.739%	45.611	-7.579	-14.248%	72.384	-1.196	-1.625%
random_word_swap	5.0	62.73	-2.61	-3.994%	43.902	-9.288	-17.462%	71.021	-2.559	-3.478%
nonsense	5.0	0.06	-65.28	-99.908%	0.064	-53.126	-99.880%	51.026	-22.554	-30.652%

Table 47: Performance and decrease ratio of Single Prompt on CLIP-BART against text corruptions given severity 1 to 4.

corruption	severity		VQ.			_ GQ.			NLVF	
	severny	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	39.57	-4.43	-10.068%	33.789	-3.751	-9.992%	51.629	-0.321	-0.618%
typos	1.0	38.99	-5.01	-11.386%	33.447	-4.093	-10.902%	52.289	0.339	0.653%
keyboard	1.0	38.12	-5.88	-13.364%	32.787	-4.753	-12.660%	51.844	-0.106	-0.203%
spell_error	1.0	38.42	-5.58	-12.682%	33.686	-3.854	-10.267%	52.189	0.239	0.460%
random_char_insert	1.0	37.28	-6.72	-15.273%	29.925	-7.615	-20.284%	51.672	-0.278	-0.535%
random_char_replace	1.0	35.6	-8.4	-19.091%	27.89	-9.65	-25.706%	52.361	0.411	0.791%
random_char_swap	1.0	32.3	-11.7	-26.591%	24.694	-12.846	-34.220%	52.002	0.052	0.101%
random_char_delete	1.0	35.77	-8.23	-18.705%	28.621	-8.919	-23.758%	51.758	-0.192	-0.369%
random_word_insert	1.0	43.95	-0.05	-0.114%	36.953	-0.587	-1.563%	52.246	0.296	0.570%
random_word_delete	1.0	43.86	-0.14	-0.318%	36.468	-1.072	-2.854%	51.787	-0.163	-0.314%
swap_syn_word_emb	1.0	39.76	-4.24	-9.636%	34.998	-2.542	-6.772%	52.088	0.138	0.266%
swap_syn_word_net	1.0	41.92	-2.08	-4.727%	35.085	-2.455	-6.540%	51.988	0.038	0.073%
random_word_swap	1.0	43.96	-0.04	-0.091%	37.279	-0.261	-0.694%	51.916	-0.034	-0.065%
			VQ.	A		GQ	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	39.83	-4.17	-9.477%	32.644	-4.896	-13.041%	52.189	0.239	0.460%
typos	2.0	38.31	-5.69	-12.932%	31.857	-5.683	-15.138%	52.131	0.181	0.349%
keyboard	2.0	37.82	-6.18	-14.045%	31.205	-6.335	-16.875%	51.514	-0.436	-0.839%
spell_error	2.0	38.19	-5.81	-13.205%	32.43	-5.11	-13.613%	51.902	-0.048	-0.093%
random_char_insert	2.0	33.14	-10.86	-24.682%	25.219	-12.321	-32.822%	51.945	-0.005	-0.010%
random_char_replace	2.0	30.73	-13.27	-30.159%	23.231	-14.309	-38.117%	51.959	0.009	0.018%
random_char_swap	2.0	28.42	-15.58	-35.409%	21.061	-16.479	-43.898%	52.131	0.181	0.349%
random_char_delete	2.0	30.9	-13.1	-29.773%	23.875	-13.665	-36.401%	51.801	-0.149	-0.286%
random_word_insert	2.0	43.38	-0.62	-1.409%	35.538	-2.002	-5.332%	52.175	0.225	0.432%
random_word_delete	2.0	39.26	-4.74	-10.773%	32.724	-4.816	-12.830%	52.103	0.153	0.294%
swap_syn_word_emb	2.0	39.47	-4.53	-10.295%	33.376	-4.164	-11.093%	51.787	-0.163	-0.314%
swap_syn_word_net	2.0	41.73	-2.27	-5.159%	34.274	-3.266	-8.700%	52.49	0.54	1.040%
random_word_swap	2.0	43.28	-0.72	-1.636%	36.445	-1.095	-2.918%	51.801	-0.149	-0.286%
comunican	severity		VQ.	A		GQ.	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	38.04	-5.96	-13.545%	29.122	-8.418	-22.423%	52.361	0.411	0.791%
typos							-25.473%	52.045	0.005	0.184%
ty Pos	3.0	36.02	-7.98	-18.136%	27.977	-9.563			0.095	
keyboard		36.02 35.37	-8.63	-18.136% -19.614%	27.373	-10.167	-23.473%	51.801	-0.149	-0.286%
keyboard spell_error	3.0 3.0 3.0	36.02 35.37 35.73	-8.63 -8.27	-19.614% -18.795%	27.373 28.494	-10.167 -9.046	-27.083% -24.096%	51.801 52.017	-0.149 0.067	-0.286% 0.128%
keyboard spell_error random_char_insert	3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11	-8.63 -8.27 -13.89	-19.614% -18.795% -31.568%	27.373 28.494 23.462	-10.167 -9.046 -14.078	-27.083% -24.096% -37.502%	51.801 52.017 52.074	-0.149 0.067 0.124	-0.286% 0.128% 0.239%
keyboard spell_error random_char_insert	3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27	-8.63 -8.27 -13.89 -15.73	-19.614% -18.795% -31.568% -35.750%	27.373 28.494 23.462 21.045	-10.167 -9.046 -14.078 -16.495	-27.083% -24.096% -37.502% -43.941%	51.801 52.017 52.074 51.902	-0.149 0.067 0.124 -0.048	-0.286% 0.128% 0.239% -0.093%
keyboard spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64	-8.63 -8.27 -13.89 -15.73 -17.36	-19.614% -18.795% -31.568% -35.750% -39.455%	27.373 28.494 23.462 21.045 19.661	-10.167 -9.046 -14.078 -16.495 -17.879	-27.083% -24.096% -37.502% -43.941% -47.626%	51.801 52.017 52.074 51.902 51.974	-0.149 0.067 0.124 -0.048 0.024	-0.286% 0.128% 0.239% -0.093% 0.045%
keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 28.16	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84	-19.614% -18.795% -31.568% -35.750% -39.455% -36.000%	27.373 28.494 23.462 21.045 19.661 21.466	-10.167 -9.046 -14.078 -16.495 -17.879 -16.074	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818%	51.801 52.017 52.074 51.902 51.974 52.734	-0.149 0.067 0.124 -0.048 0.024 0.784	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510%
keyboard spell_error random_char_insert random_char_replace random_char_wap random_char_delete random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 28.16 42.88	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12	-19.614% -18.795% -31.568% -35.750% -39.455% -36.000% -2.545%	27.373 28.494 23.462 21.045 19.661 21.466 34.409	-10.167 -9.046 -14.078 -16.495 -17.879 -16.074 -3.131	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340%	51.801 52.017 52.074 51.902 51.974 52.734 51.773	-0.149 0.067 0.124 -0.048 0.024 0.784 -0.177	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341%
keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 28.16 42.88 36.96	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12 -7.04	-19.614% -18.795% -31.568% -35.750% -39.455% -36.000% -2.545% -16.000%	27.373 28.494 23.462 21.045 19.661 21.466 34.409 29.114	-10.167 -9.046 -14.078 -16.495 -17.879 -16.074 -3.131 -8.426	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340% -22.445%	51.801 52.017 52.074 51.902 51.974 52.734 51.773 51.816	-0.149 0.067 0.124 -0.048 0.024 0.784 -0.177 -0.134	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341% -0.259%
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keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_swap random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_dom_disete random_mord_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.37 30.11 28.27 26.64 42.88 36.96 37.35 40.58 43.21 Acc 35.04 30.96 31.55 28.57 27.02 25.94 26.91 42.33	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12 -7.04 -6.65 -3.42 -0.79 -8.96 -13.04 -12.45 -15.43 -16.98 -18.06 -17.09 -1.67	-19.614% -18.795% -31.568% -35.750% -39.455% -36.000% -2.545% -16.000% -15.114% -7.773% -1.795% A Decrease Ratio -20.364% -29.636% -28.295% -35.068% -38.591% -41.045% -38.841% -3.795%	27.373 28.494 23.462 21.045 19.661 21.469 34.409 29.114 30.776 31.897 35.475 Acc 26.268 23.048 25.123 21.053 20.114 19.534 19.82	-10.167 -9.046 -14.078 -16.495 -17.879 -16.074 -3.131 -8.426 -6.764 -5.643 -2.065 GQ. Decrease -11.272 -14.492 -12.417 -16.487 -17.426 -18.006 -17.72 -4.594	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340% -22.445% -15.032% -5.502% A Decrease Ratio -30.026% -38.604% -33.076% -43.919% -46.419% -47.965% -47.202% -12.237%	51.801 52.017 52.074 51.902 51.974 52.734 51.816 51.816 51.945 51.773 CIDer 51.816 51.816 51.816 51.801 51.816 51.816 51.815 51.816 51.	-0.149 0.067 0.124 -0.048 0.024 0.784 -0.177 -0.134 -0.134 -0.105 -0.177 NLVF Decrease 0.024 -0.135 -0.135 -0.	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341% -0.259% -0.010% -0.341% Decrease Rati 0.045% -0.259% -0.019% -0.452% 0.791% -0.452% 0.460% -0.460%
keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_delete random_word_insert random_word_elete swap_syn_word_emb swap_syn_word_ent corruption ocr keyboard spell_error random_char_insert random_char_swap random_char_swap random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 42.88 36.96 40.58 43.21 Acc 35.04 30.96 31.55 28.57 27.02 25.94 26.91 42.33 32.87	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12 -7.04 -6.65 -3.42 -0.79 VQ. Decrease -8.96 -13.04 -12.45 -15.43 -16.98 -18.06 -17.09 -1.67	-19.614% -18.795% -31.568% -31.568% -35.750% -39.455% -36.000% -2.545% -16.000% -15.114% -7.773% -1.795% A Decrease Ratio -20.364% -29.636% -28.295% -35.068% -38.591% -41.045% -38.841% -3.795% -25.295%	27.373 28.494 23.462 21.045 19.661 21.466 34.409 29.114 30.776 31.897 35.475 Acc 26.268 23.048 25.123 21.053 20.114 19.534 19.82 32.946 26.133	-10.167 -9.046 -114.078 -116.495 -17.879 -16.074 -3.131 -8.426 -6.764 -2.065 -11.272 -14.492 -12.417 -16.487 -17.426 -17.72 -4.594 -17.72 -4.594	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340% -22.445% -18.018% -15.032% -5.502% A Decrease Ratio -30.026% -38.604% -33.076% -43.919% -44.419% -47.965% -47.202% -12.237% -30.386%	51.801 52.017 52.074 51.902 51.974 52.734 51.773 51.816 51.945 51.773 CIDer 51.974 51.816 51.816 51.816 51.816 51.816 51.815 51.819 51.819 51.839 51.859	-0.149 0.067 0.124 -0.048 0.024 -0.177 -0.134 -0.105 -0.177 NLVF Decrease 0.024 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.141 -0.235 0.239 -0.091	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341% -0.259% -0.010% -0.341% Decrease Rati 0.045% -0.259% -0.259% -0.019% -0.341%
keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_delete random_word_insert random_word_elete swap_syn_word_emb swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_swap random_char_delete random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 42.88 36.96 37.35 40.58 43.21 Acc 35.04 30.96 31.55 28.57 27.02 25.94 26.91 42.33 32.87 35.94	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12 -7.04 -6.65 -3.42 -0.79 VQ. Decrease -8.96 -13.04 -12.45 -15.43 -16.98 -17.09 -1.67 -11.13 -8.06	-19.614% -18.795% -31.568% -35.750% -39.455% -36.000% -2.545% -16.000% -15.114% -7.773% -1.795% A Decrease Ratio -20.364% -29.636% -28.295% -35.068% -38.591% -41.045% -38.841% -3.795% -18.318%	27.373 28.494 23.462 21.045 19.661 21.466 34.409 29.114 30.776 31.897 35.475 Acc 26.268 23.048 25.123 20.114 19.523 19.523 19.523 20.214 20.21	-10.167 -9.046 -14.078 -16.495 -17.879 -16.074 -3.131 -8.426 -5.643 -2.065 -11.272 -14.492 -12.417 -16.487 -17.42 -18.006 -17.72 -4.594 -11.407 -7.774	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340% -22.445% -15.032% -5.502% A Decrease Ratio -30.026% -38.604% -33.076% -43.919% -47.965% -47.202% -12.237% -30.386% -20.708%	51.801 52.017 52.074 51.902 51.974 51.773 51.816 51.816 51.816 51.873 CIDer 51.974 51.801 51.615 52.361 52.361 51.615 52.189 51.859 51.859 51.859 51.816	-0.149 0.067 0.124 -0.048 0.024 0.784 -0.177 -0.134 -0.105 -0.177 NLVF Decrease 0.024 -0.134 -0.134 -0.134 -0.135 0.235 0.239 -0.091 -0.0134	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341% -0.259% -0.010% -0.341% Decrease Rati 0.045% -0.259% -0.259% -0.259% -0.1045% -0.259% -0.259% -0.259% -0.259% -0.145% -0.259% -0.259% -0.259% -0.259% -0.341%
keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_swap random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_net random_word_swap corruption ocr keyboard spell_error random_char_insert random_char_insert random_char_swap random_char_delete random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.02 35.37 35.73 30.11 28.27 26.64 42.88 36.96 40.58 43.21 Acc 35.04 30.96 31.55 28.57 27.02 25.94 26.91 42.33 32.87	-8.63 -8.27 -13.89 -15.73 -17.36 -15.84 -1.12 -7.04 -6.65 -3.42 -0.79 VQ. Decrease -8.96 -13.04 -12.45 -15.43 -16.98 -18.06 -17.09 -1.67	-19.614% -18.795% -31.568% -31.568% -35.750% -39.455% -36.000% -2.545% -16.000% -15.114% -7.773% -1.795% A Decrease Ratio -20.364% -29.636% -28.295% -35.068% -38.591% -41.045% -38.841% -3.795% -25.295%	27.373 28.494 23.462 21.045 19.661 21.466 34.409 29.114 30.776 31.897 35.475 Acc 26.268 23.048 25.123 21.053 20.114 19.534 19.82 32.946 26.133	-10.167 -9.046 -114.078 -116.495 -17.879 -16.074 -3.131 -8.426 -6.764 -2.065 -11.272 -14.492 -12.417 -16.487 -17.426 -17.72 -4.594 -17.72 -4.594	-27.083% -24.096% -37.502% -43.941% -47.626% -42.818% -8.340% -22.445% -18.018% -15.032% -5.502% A Decrease Ratio -30.026% -38.604% -33.076% -43.919% -44.419% -47.965% -47.202% -12.237% -30.386%	51.801 52.017 52.074 51.902 51.974 52.734 51.773 51.816 51.945 51.773 CIDer 51.974 51.816 51.816 51.816 51.816 51.816 51.815 51.819 51.819 51.839 51.859	-0.149 0.067 0.124 -0.048 0.024 -0.177 -0.134 -0.105 -0.177 NLVF Decrease 0.024 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.134 -0.141 -0.235 0.239 -0.091	-0.286% 0.128% 0.239% -0.093% 0.045% 1.510% -0.341% -0.259% -0.010% -0.341% Decrease Rati 0.045% -0.259% -0.259% -0.108 -0.341% -0.452% -0.452% 0.460% -0.452% 0.4160% -0.176% -0.037%

Table 48: Performance and decrease ratio of Single Prompt on CLIP-BART against text corruptions given severity 5. _____

			VQ.	A		GQ.	A		NLVI	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	34.13	-9.87	-22.432%	24.654	-12.886	-34.326%	51.873	-0.077	-0.148%
punctuation	5.0	42.47	-1.53	-3.477%	34.751	-2.789	-7.429%	51.959	0.009	0.018%
typos	5.0	26.09	-17.91	-40.705%	19.367	-18.173	-48.409%	51.744	-0.206	-0.397%
keyboard	5.0	24.86	-19.14	-43.500%	18.501	-19.039	-50.718%	51.83	-0.12	-0.231%
spell_error	5.0	28.3	-15.7	-35.682%	22.516	-15.024	-40.023%	51.859	-0.091	-0.176%
random_char_insert	5.0	27.07	-16.93	-38.477%	20.17	-17.37	-46.270%	51.543	-0.407	-0.783%
random_char_replace	5.0	25.81	-18.19	-41.341%	19.463	-18.077	-48.155%	52.246	0.296	0.570%
random_char_swap	5.0	25.38	-18.62	-42.318%	18.898	-18.642	-49.659%	51.572	-0.378	-0.728%
random_char_delete	5.0	25.94	-18.06	-41.045%	19.502	-18.038	-48.049%	52.189	0.239	0.460%
to_passive	5.0	40.84	-3.16	-7.182%	33.439	-4.101	-10.923%	52.419	0.469	0.902%
tense	5.0	43.8	-0.2	-0.455%	37.462	-0.078	-0.207%	51.816	-0.134	-0.259%
to_formal	5.0	43.79	-0.21	-0.477%	37.359	-0.181	-0.482%	52.289	0.339	0.653%
to_casual	5.0	41.04	-2.96	-6.727%	33.749	-3.791	-10.097%	52.318	0.368	0.709%
to_active	5.0	42.52	-1.48	-3.364%	36.071	-1.469	-3.913%	51.945	-0.005	-0.010%
double_denial	5.0	43.93	-0.07	-0.159%	37.542	0.002	0.005%	51.974	0.024	0.045%
insert_adv	5.0	42.61	-1.39	-3.159%	35.912	-1.628	-4.337%	52.304	0.354	0.681%
append_irr	5.0	35.1	-8.9	-20.227%	26.833	-10.707	-28.523%	52.017	0.067	0.128%
random_word_insert	5.0	41.52	-2.48	-5.636%	32.096	-5.444	-14.503%	51.443	-0.507	-0.977%
drop_nn	5.0	35.18	-8.82	-20.045%	27.874	-9.666	-25.748%	52.074	0.124	0.239%
drop_rand_one_nn	5.0	39.3	-4.7	-10.682%	33.415	-4.125	-10.987%	51.974	0.024	0.045%
drop_vb	5.0	25.14	-18.86	-42.864%	20.385	-17.155	-45.698%	52.318	0.368	0.709%
drop_vb_nn	5.0	25.92	-18.08	-41.091%	17.539	-20.001	-53.280%	52.462	0.512	0.985%
only_nn	5.0	16.21	-27.79	-63.159%	12.824	-24.716	-65.839%	51.514	-0.436	-0.839%
only_vb	5.0	37.9	-6.1	-13.864%	30.712	-6.828	-18.188%	51.959	0.009	0.018%
only_vb_nn	5.0	35.09	-8.91	-20.250%	28.327	-9.213	-24.541%	51.543	-0.407	-0.783%
drop_rand_one_vb	5.0	29.64	-14.36	-32.636%	25.64	-11.9	-31.700%	51.959	0.009	0.018%
drop_first	5.0	20.03	-23.97	-54.477%	15.249	-22.291	-59.380%	52.16	0.21	0.405%
drop_last	5.0	42.14	-1.86	-4.227%	36.683	-0.857	-2.283%	52.203	0.253	0.487%
drop_first_and_last	5.0	17.78	-26.22	-59.591%	14.756	-22.784	-60.693%	52.218	0.268	0.515%
shuffle_order	5.0	40.09	-3.91	-8.886%	28.955	-8.585	-22.868%	52.304	0.354	0.681%
random_word_delete	5.0	29.11	-14.89	-33.841%	23.414	-14.126	-37.629%	52.16	0.21	0.405%
swap_syn_word_emb	5.0	35.43	-8.57	-19.477%	29.146	-8.394	-22.360%	52.002	0.052	0.101%
swap_syn_word_net	5.0	35.96	-8.04	-18.273%	28.693	-8.847	-23.567%	51.629	-0.321	-0.618%
back_trans	5.0	43.33	-0.67	-1.523%	36.357	-1.183	-3.151%	51.931	-0.019	-0.037%
random_word_swap	5.0	42.27	-1.73	-3.932%	33.956	-3.584	-9.547%	51.945	-0.005	-0.010%
nonsense	5.0	24.61	-19.39	-44.068%	18.0	-19.54	-52.052%	51.959	0.009	0.018%

Table 49: Performance and decrease ratio of Full Finetuning on CLIP-T5 against text corruptions given severity 1 to 4.

corruption	severity		VQ			GQ/		CITE	NLVI	
	50 (0110)	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr .	1.0	56.07	-10.22	-15.417%	44.84	-11.98	-21.084%	60.686	-13.374	-18.058%
punctuation	1.0	65.39	-0.9	-1.358%	54.333	-2.487	-4.377%	73.575	-0.485	-0.654%
typos	1.0	58.19	-8.1	-12.219%	47.464	-9.356	-16.466%	70.977	-3.083	-4.162%
keyboard	1.0	56.04	-10.25 -8.23	-15.462%	45.047 47.694	-11.773 -9.126	-20.720%	70.733	-3.327	-4.492% -4.434%
spell_error	1.0	58.06 52.68	-8.23 -13.61	-12.415% -20.531%	35.721	-9.126 -21.099	-16.061%	70.777 66.04	-3.283 -8.02	-4.434% -10.829%
random_char_insert random_char_replace	1.0 1.0	48.02	-13.01	-20.331% -27.561%	32.088	-21.099	-37.133% -43.527%	64.03	-8.02 -10.03	-10.829%
random_char_swap	1.0	41.2	-16.27	-37.849%	26.801	-30.019	-52.832%	59.767	-10.03	-19.299%
random char delete	1.0	50.56	-15.73	-23.729%	35.976	-20.844	-36.685%	64.849	-9.211	-12.438%
random_word_insert	1.0	66.18	-0.11	-0.166%	52.592	-4.228	-7.441%	73.633	-0.427	-0.577%
random_word_delete	1.0	66.09	-0.11	-0.302%	54.412	-2.408	-4.237%	72.7	-1.36	-1.837%
swap_syn_word_emb	1.0	55.34	-10.95	-16.518%	46.621	-10.199	-17.950%	67.935	-6.125	-8.271%
swap_syn_word_net	1.0	58.79	-7.5	-11.314%	48.14	-8.68	-15.277%	71.064	-2.996	-4.046%
random_word_swap	1.0	66.19	-0.1	-0.151%	54.412	-2.408	-4.237%	73.231	-0.829	-1.119%
Tandoni_word_owap	1.0	00.17			52			70.201		
corruption	severity	Acc	VQ Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	CIDer	NLVI Decrease	R Decrease Ratio
ocr	2.0	55.61	-10.68	-16.111%	40.412	-16.408	-28.877%	68.322	-5.738	-7.748%
punctuation	2.0	65.31	-0.98	-1.478%	54.023	-2.797	-4.923%	74.135	0.075	0.102%
typos	2.0	56.71	-9.58	-14.452%	42.853	-13.967	-24.582%	68.193	-5.867	-7.922%
keyboard	2.0	55.57	-10.72	-16.171%	40.388	-16.432	-28.919%	68.064	-5.996	-8.097%
spell_error	2.0	57.71	-8.58	-12.943%	44.785	-12.035	-21.182%	68.006	-6.054	-8.174%
random_char_insert	2.0	40.83	-25.46	-38.407%	24.503	-32.317	-56.876%	59.811	-14.249	-19.240%
random_char_replace	2.0	33.87	-32.42	-48.906%	19.693	-37.127	-65.341%	56.969	-17.091	-23.078%
random_char_swap	2.0 2.0	29.57 39.07	-36.72 -27.22	-55.393%	18.016 25.576	-38.804 -31.244	-68.294%	54.256 58.059	-19.804	-26.741% -21.605%
random_char_delete	2.0		-27.22	-41.062%			-54.987%		-16.001	
random_word_insert	2.0	63.61 60.78	-2.68 -5.51	-4.043% -8.312%	47.909 48.974	-8.911 -7.846	-15.683% -13.808%	72.7 69.772	-1.36 -4.288	-1.837% -5.790%
random_word_delete swap_syn_word_emb	2.0	54.79	-3.31 -11.5	-8.312% -17.348%	48.974	-14.373	-25.295%	62.739	-4.288 -11.321	-3.790% -15.287%
swap_syn_word_net	2.0	58.08	-8.21	-12.385%	45.731	-11.089	-19.517%	69.068	-4.992	-6.740%
random_word_swap	2.0	64.72	-1.57	-2.368%	52.043	-4.777	-8.407%	72.599	-1.461	-1.972%
random_word_owap	2.0	0 11.72	1.07	2150070	02.0.0		0.10776	72.077	1.101	11,77270
corruption	severity	Acc	VQ		Acc	GQ/ Decrease		CIDer	NLVI	
		Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	50.9	Decrease -15.39	Decrease Ratio	33.352	Decrease -23.468	Decrease Ratio	63.715	Decrease -10.345	Decrease Ratio
ocr punctuation	3.0 3.0	50.9 65.58	-15.39 -0.71	-23.216% -1.071%	33.352 54.476	-23.468 -2.344	-41.303% -4.125%	63.715 73.604	-10.345 -0.456	-13.969% -0.616%
ocr punctuation typos	3.0 3.0 3.0	50.9 65.58 52.43	-15.39 -0.71 -13.86	-23.216% -1.071% -20.908%	33.352 54.476 34.783	-23.468 -2.344 -22.037	-41.303% -4.125% -38.784%	63.715 73.604 65.035	-10.345 -0.456 -9.025	-13.969% -0.616% -12.186%
ocr punctuation typos keyboard	3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05	-15.39 -0.71 -13.86 -16.24	-23.216% -1.071% -20.908% -24.498%	33.352 54.476 34.783 33.074	-23.468 -2.344 -22.037 -23.746	-41.303% -4.125% -38.784% -41.792%	63.715 73.604 65.035 63.643	-10.345 -0.456 -9.025 -10.417	-13.969% -0.616% -12.186% -14.066%
ocr punctuation typos keyboard spell_error	3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33	-15.39 -0.71 -13.86 -16.24 -12.96	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550%	33.352 54.476 34.783 33.074 37.55	Decrease -23.468 -2.344 -22.037 -23.746 -19.27	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915%	63.715 73.604 65.035 63.643 64.088	Decrease -10.345 -0.456 -9.025 -10.417 -9.972	-13.969% -0.616% -12.186% -14.066% -13.465%
ocr punctuation typos keyboard spell_error random_char_insert	3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69	-15.39 -0.71 -13.86 -16.24 -12.96 -35.6	-23.216% -1.071% -20.908% -24.498% -19.550% -53.703%	33.352 54.476 34.783 33.074 37.55 18.389	-23.468 -2.344 -22.037 -23.746 -19.27 -38.431	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915% -67.636%	63.715 73.604 65.035 63.643 64.088 56.667	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393	-13.969% -0.616% -12.186% -14.066% -13.465% -23.485%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace	3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86	-15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007%	33.352 54.476 34.783 33.074 37.55 18.389 13.555	-23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915% -67.636% -76.143%	63.715 73.604 65.035 63.643 64.088 56.667 53.524	-10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536	-13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29	-15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382	-23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915% -67.636% -76.143% -74.688%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887	-10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915% -67.636% -76.143% -74.688% -64.726%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16	-10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76 62.9	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745	Decrease Ratio 41.303% 4.125% -38.784% 41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348%
ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76 62.9 57.36	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745 -12.52	Decrease Ratio 41.303% 4.1.25% -38.784% -41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -5.508	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -27.729% -29.939% -25.520% -3.348% -7.438%
ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76 62.9 57.36 50.63	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93 -15.66	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471% -23.623%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3 35.936	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745 -12.52 -20.884	Decrease Ratio -41.303% -4.125% -38.784% -41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035% -36.755%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552 59.911	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -5.508 -14.149	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348% -7.438% -19.105%
ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76 62.9 57.36 50.63 54.35	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93 -15.66 -11.94	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471% -23.623% -18.012%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3 35.936 40.499	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745 -12.52 -20.884 -16.321	Decrease Ratio 41.303% 4.125% -38.784% 41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035% -36.755% -28.724%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552 59.911 64.518	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -5.508 -14.149 -9.542	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348% -7.438% -19.105% -12.884%
ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 31.76 62.9 57.36 50.63	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93 -15.66 -11.94 -2.76	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471% -23.623% -18.012% -4.164%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3 35.936	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745 -12.52 -20.884 -16.321 -7.019	Decrease Ratio 41.303% 41.125% -38.784% 41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035% -36.755% -28.724% -12.353%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552 59.911	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -2.48 -14.149 -9.542 -2.882	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348% -7.438% -19.105% -12.884% -3.891%
ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_delete random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 23.29 57.36 62.9 57.36 50.63 54.35 63.53	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93 -15.66 -11.94 -2.76	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471% -23.623% -18.012% -4.164%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3 35.936 40.499 49.801	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.777 -13.745 -12.52 -20.884 -16.321 -7.019	Decrease Ratio 41.303% 4.125% -38.784% 41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035% -36.755% -28.724% -12.353% A	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552 59.911 64.518 71.178	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -5.508 -14.149 -9.542 -2.882	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348% -7.438% -19.105% -12.884% -3.891%
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ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_swap random_word_insert random_word_insert random_word_elete swap_syn_word_enb swap_syn_word_net random_word_swap corruption ocr punctuation typos spell_error random_char_insert random_char_insert random_char_swap random_char_delete random_word_insert random_word_insert random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.9 65.58 52.43 50.05 53.33 30.69 23.86 62.9 57.36 50.63 54.35 63.53 Acc 44.74 65.59 44.4 45.25 22.93 16.96 19.0 26.11 61.15 50.96	Decrease -15.39 -0.71 -13.86 -16.24 -12.96 -35.6 -42.43 -43.0 -34.53 -3.39 -8.93 -15.66 -11.94 -2.76 VQ Decrease -21.55 -0.7 -21.89 -21.04 -43.36 -49.33 -47.29 -40.18 -5.04	Decrease Ratio -23.216% -1.071% -20.908% -24.498% -19.550% -53.703% -64.007% -64.866% -52.089% -5.114% -13.471% -23.623% -18.012% -4.164% PA Decrease Ratio -32.509% -1.056% -33.022% -31.739% -65.410% -74.415% -71.338% -60.612% -7.603% -23.126%	33.352 54.476 34.783 33.074 37.55 18.389 13.555 14.382 20.043 43.075 44.3 35.936 40.499 49.801 Acc 28.017 54.363 28.431 31.166 15.018 8.881 18.989 16.354 39.307 37.939	Decrease -23.468 -2.344 -22.037 -23.746 -19.27 -38.431 -43.265 -42.438 -36.77 -13.745 -12.52 -20.884 -16.321 -7.019 GQ0 Decrease -28.803 -2.455 -28.389 -25.654 -41.802 -47.939 -44.831 -40.466 -17.513 -18.881	Decrease Ratio 41.303% 4.125% -38.784% 41.792% -33.915% -67.636% -76.143% -74.688% -64.726% -24.190% -22.035% -36.755% -28.724% -12.353% A Decrease Ratio -50.691% -4.321% -49.964% -45.150% -73.569% -84.371% -78.900% -71.218% -30.822% -33.229%	63.715 73.604 65.035 63.643 64.088 56.667 53.524 51.887 55.16 71.58 68.552 59.911 64.518 71.178 CIDer 61.289 73.992 61.705 61.418 54.385 55.2619 51.816 53.725 70.748	Decrease -10.345 -0.456 -9.025 -10.417 -9.972 -17.393 -20.536 -22.173 -18.9 -2.48 -5.508 -14.149 -9.542 -2.882 NLVI Decrease -12.771 -0.068 -12.365 -12.642 -19.675 -21.441 -22.244 -20.335 -3.312 -8.551	Decrease Ratio -13.969% -0.616% -12.186% -14.066% -13.465% -23.485% -27.729% -29.939% -25.520% -3.348% -7.438% -19.105% -12.884% -3.891% Recrease Ratio -17.244% -0.092% -16.682% -17.070% -26.566% -28.950% -30.036% -27.458% -4.472% -11.546%

Table 50: Performance and decrease ratio of Full Finetuning on CLIP-T5 against text corruptions given severity 5. _____

aamuntian	severity		VQ	A		GQ/	A		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	41.68	-24.61	-37.125%	25.592	-31.228	-54.959%	57.227	-16.833	-22.729%
punctuation	5.0	65.39	-0.9	-1.358%	54.055	-2.765	-4.867%	73.805	-0.255	-0.344%
typos	5.0	31.24	-35.05	-52.874%	20.393	-36.427	-64.110%	53.854	-20.206	-27.283%
keyboard	5.0	26.9	-39.39	-59.421%	18.071	-38.749	-68.196%	52.72	-21.34	-28.815%
spell_error	5.0	38.79	-27.5	-41.484%	26.864	-29.956	-52.720%	58.634	-15.426	-20.830%
random_char_insert	5.0	17.18	-49.11	-74.084%	11.759	-45.061	-79.305%	52.706	-21.354	-28.834%
random_char_replace	5.0	11.99	-54.3	-81.913%	6.71	-50.11	-88.191%	52.289	-21.771	-29.396%
random_char_swap	5.0	16.77	-49.52	-74.702%	12.14	-44.68	-78.634%	52.232	-21.828	-29.473%
random_char_delete	5.0	22.44	-43.85	-66.149%	14.573	-42.247	-74.352%	52.16	-21.9	-29.570%
to_passive	5.0	63.3	-2.99	-4.510%	52.003	-4.817	-8.477%	72.083	-1.977	-2.670%
tense	5.0	65.47	-0.82	-1.237%	54.826	-1.994	-3.510%	73.963	-0.097	-0.131%
to_formal	5.0	65.84	-0.45	-0.679%	54.571	-2.249	-3.957%	73.762	-0.298	-0.402%
to_casual	5.0	63.61	-2.68	-4.043%	52.027	-4.793	-8.435%	72.269	-1.791	-2.418%
to_active	5.0	64.81	-1.48	-2.233%	54.269	-2.551	-4.489%	73.274	-0.786	-1.061%
double_denial	5.0	66.22	-0.07	-0.106%	55.565	-1.255	-2.208%	74.107	0.047	0.063%
insert_adv	5.0	61.91	-4.38	-6.607%	50.779	-6.041	-10.632%	71.207	-2.853	-3.852%
append_irr	5.0	64.51	-1.78	-2.685%	48.426	-8.394	-14.773%	67.317	-6.743	-9.104%
random_word_insert	5.0	58.7	-7.59	-11.450%	35.793	-21.027	-37.007%	69.585	-4.475	-6.042%
drop_nn	5.0	43.96	-22.33	-33.685%	31.627	-25.193	-44.339%	63.873	-10.187	-13.756%
drop_rand_one_nn	5.0	55.85	-10.44	-15.749%	45.699	-11.121	-19.573%	71.107	-2.953	-3.988%
drop_vb	5.0	56.77	-9.52	-14.361%	38.559	-18.261	-32.138%	70.934	-3.126	-4.220%
drop_vb_nn	5.0	42.66	-23.63	-35.646%	26.189	-30.631	-53.910%	60.844	-13.216	-17.845%
only_nn	5.0	15.14	-51.15	-77.161%	14.462	-42.358	-74.548%	54.672	-19.388	-26.179%
only_vb	5.0	51.32	-14.97	-22.583%	40.483	-16.337	-28.752%	67.159	-6.901	-9.317%
only_vb_nn	5.0	42.42	-23.87	-36.008%	28.59	-28.23	-49.684%	57.629	-16.431	-22.186%
drop_rand_one_vb	5.0	61.59	-4.7	-7.090%	46.08	-10.74	-18.901%	72.241	-1.819	-2.457%
drop_first	5.0	58.55	-7.74	-11.676%	42.932	-13.888	-24.442%	72.442	-1.618	-2.185%
drop_last	5.0	51.9	-14.39	-21.708%	46.359	-10.461	-18.411%	69.714	-4.346	-5.868%
drop_first_and_last	5.0	38.01	-28.28	-42.661%	31.953	-24.867	-43.765%	68.58	-5.48	-7.399%
shuffle_order	5.0	57.01	-9.28	-13.999%	38.265	-18.555	-32.655%	66.557	-7.503	-10.131%
random_word_delete	5.0	42.79	-23.5	-35.450%	30.919	-25.901	-45.584%	62.882	-11.178	-15.093%
swap_syn_word_emb	5.0	46.23	-20.06	-30.261%	31.969	-24.851	-43.737%	57.887	-16.173	-21.837%
swap_syn_word_net	5.0	47.24	-19.05	-28.737%	37.558	-19.262	-33.901%	59.294	-14.766	-19.938%
back_trans	5.0	62.6	-3.69	-5.566%	51.503	-5.317	-9.358%	72.944	-1.116	-1.507%
random_word_swap	5.0	61.84	-4.45	-6.713%	46.542	-10.278	-18.089%	70.461	-3.599	-4.860%
nonsense	5.0	0.0	-66.29	-100.000%	12.339	-44.481	-78.284%	51.227	-22.833	-30.830%

Table 51: Performance and decrease ratio of Hyperformer on CLIP-T5 against text corruptions given severity 1 to 4.

corruption	severity		VQ.			GQA			NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	54.25	-10.93	-16.769%	44.705	-9.945	-18.198%	58.691	-11.869	-16.821%
punctuation	1.0	64.64	-0.54	-0.828%	52.457	-2.193	-4.013%	70.647	0.087	0.124%
typos	1.0	56.88	-8.3	-12.734%	47.05	-7.6	-13.906%	68.982	-1.578	-2.236%
spell_error	1.0	56.94	-8.24	-12.642%	46.573	-8.077	-14.779%	68.064	-2.496	-3.538%
random_char_insert	1.0	50.88	-14.3	-21.939%	37.001	-17.649	-32.294%	64.762	-5.798	-8.216%
random_char_replace	1.0	46.86	-18.32	-28.107%	33.765	-20.885	-38.215%	61.705	-8.855	-12.549%
random_char_swap	1.0	40.92	-24.26	-37.220%	27.699	-26.951	-49.315%	58.174	-12.386	-17.554%
random_char_delete	1.0	49.57	-15.61	-23.949%	36.723	-17.927	-32.804%	63.557	-7.003	-9.925%
random_word_insert	1.0	65.13	-0.05	-0.077%	50.97	-3.68	-6.734%	70.188	-0.372	-0.527%
random_word_delete	1.0	65.01	-0.17	-0.261%	52.409	-2.241	-4.101%	69.528	-1.032	-1.463%
swap_syn_word_emb	1.0	54.91	-10.27	-15.756%	46.836	-7.814	-14.299%	65.868	-4.692	-6.650%
swap_syn_word_net	1.0	58.65	-6.53	-10.018%	47.456	-7.194	-13.164%	68.58	-1.98	-2.805%
random_word_swap	1.0	65.09	-0.09	-0.138%	52.767	-1.883	-3.446%	69.844	-0.716	-1.015%
			VQ.	A		GQ.	A		NLVF	2
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	53.56	-11.62	-17.828%	40.444	-14.206	-25.995%	64.978	-5.582	-7.911%
punctuation	2.0	64.71	-0.47	-0.721%	52.139	-2.511	-4.595%	70.274	-0.286	-0.405%
typos	2.0	55.96	-9.22	-14.145%	42.36	-12.29	-22.489%	66.399	-4.161	-5.897%
spell_error	2.0	56.7	-8.48	-13.010%	44.093	-10.557	-19.318%	65.652	-4.908	-6.955%
random_char_insert	2.0	40.34	-24.84	-38.110%	27.588	-27.062	-49.519%	58.49	-12.07	-17.106%
random_char_replace	2.0	35.49	-29.69	-45.551%	24.249	-30.401	-55.629%	55.519	-15.041	-21.317%
random_char_swap	2.0	31.74	-33.44	-51.304%	18.85	-35.8	-65.507%	52.605	-17.955	-25.446%
random_char_delete	2.0	38.59	-26.59	-40.795%	26.578	-28.072	-51.367%	57.643	-12.917	-18.306%
random_word_insert	2.0	63.76	-1.42	-2.179%	47.973	-6.677	-12.218%	69.14	-1.42	-2.012%
random_word_delete	2.0	60.14	-5.04	-7.732%	47.265	-7.385	-13.513%	67.159	-3.401	-4.819%
swap_syn_word_emb	2.0	54.15	-11.03	-16.922%	43.608	-11.042	-20.205%	62.007	-8.553	-12.122%
swap_syn_word_net	2.0	58.08	-7.1	-10.893%	45.158	-9.492	-17.368%	66.212	-4.348	-6.162%
random_word_swap	2.0	63.54	-1.64	-2.516%	50.7	-3.95	-7.228%	69.528	-1.032	-1.463%
corruption	severity		VQ.	A		GQ/	A		NLVF	
Corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	48.9	-16.28	-24.977%	33.908	-20.742	-37.954%	62.322	-8.238	-11.675%
punctuation	3.0	64.59	-0.59	-0.905%	52.361	-2.289	-4.188%	70.159	-0.401	-0.568%
typos	3.0	51.02	-14.16	-21.724%	35.864	-18.786	-34.375%	63.772	-6.788	-9.620%
spell_error	3.0	51.79	-13.39	-20.543%	37.995	-16.655	-30.476%	63.227	-7.333	-10.393%
random_char_insert	3.0	33.48	-31.7	-48.635%	22.571	-32.079	-58.699%	54.816	-15.744	-22.314%
random_char_replace	3.0	30.02	-35.16	-53.943%	19.097	-35.553	-65.056%	52.232	-18.328	-25.975%
random_char_swap	3.0	27.97	-37.21	-57.088%	14.653	-39.997	-73.188%	51.328	-19.232	-27.257%
random_char_delete	3.0	32.67	-32.51	-49.877%	20.798	-33.852	-61.943%	54.213	-16.347	-23.168%
random_word_insert	3.0	63.1	-2.08	-3.191%	43.64	-11.01	-20.147%	69.112	-1.448	-2.053%
random_word_delete	3.0	57.38	-7.8	-11.967%	43.314	-11.336	-20.743%	66.356	-4.204	-5.959%
swap_syn_word_emb	3.0	50.18	-15.0	-23.013%	38.384	-16.266	-29.763%	58.375	-12.185	-17.269%
swap_syn_word_net	3.0	54.48	-10.7	-16.416%	40.571	-14.079	-25.762%	63.341	-7.219	-10.230%
random_word_swap	3.0	63.53	-2.76	-4.164%	49.801	-7.019	-12.353%	71.178	-2.882	-3.891%
			VQ.	A		GQ/	A		NLVF	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	4.0	42.03	-23.15	-35.517%	28.717	-25.933	-47.453%	58.49	-12.07	-17.106%
punctuation	4.0	64.62	-0.56	-0.859%	52.298	-2.352	-4.304%	70.518	-0.042	-0.059%
typos	4.0	42.24	-22.94	-35.195%	29.997	-24.653	-45.111%	60.456	-10.104	-14.319%
typos	4.0	44.06	-21.12	-32.403%	32.318	-22.332	-40.863%	60.729	-9.831	-13.933%
spell_error			-35.72	-54.802%	19.145	-35.505	-64.969%	52.361	-18.199	-25.792%
	4.0	29.46		-34.00270						
spell_error	4.0 4.0	29.46 27.43	-33.72	-57.917%	16.243	-38.407	-70.279%	50.754	-19.806	-28.070%
spell_error random_char_insert					16.243 12.514	-38.407 -42.136	-70.279% -77.102%	50.754 50.897	-19.806 -19.663	-28.070% -27.867%
spell_error random_char_insert random_char_replace	4.0	27.43	-37.75	-57.917%						
spell_error random_char_insert random_char_replace random_char_swap	4.0 4.0	27.43 26.3	-37.75 -38.88	-57.917% -59.650%	12.514	-42.136	-77.102%	50.897	-19.663	-27.867%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete	4.0 4.0 4.0	27.43 26.3 29.24	-37.75 -38.88 -35.94	-57.917% -59.650% -55.140%	12.514 15.837	-42.136 -38.813	-77.102% -71.021%	50.897 52.002	-19.663 -18.558	-27.867% -26.301%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert	4.0 4.0 4.0 4.0	27.43 26.3 29.24 61.76	-37.75 -38.88 -35.94 -3.42	-57.917% -59.650% -55.140% -5.247%	12.514 15.837 40.642	-42.136 -38.813 -14.008	-77.102% -71.021% -25.631%	50.897 52.002 68.997	-19.663 -18.558 -1.563	-27.867% -26.301% -2.216%
spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_insert random_word_delete	4.0 4.0 4.0 4.0 4.0	27.43 26.3 29.24 61.76 51.41	-37.75 -38.88 -35.94 -3.42 -13.77	-57.917% -59.650% -55.140% -5.247% -21.126%	12.514 15.837 40.642 37.311	-42.136 -38.813 -14.008 -17.339	-77.102% -71.021% -25.631% -31.727%	50.897 52.002 68.997 63.93	-19.663 -18.558 -1.563 -6.63	-27.867% -26.301% -2.216% -9.396%

Table 52: Performance and decrease ratio of Hyperformer on CLIP-T5 against text corruptions given severity 5.

			VQ.	A		GQ.	Λ		NLVF	₹
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	38.87	-26.31	-40.365%	26.109	-28.541	-52.225%	55.189	-15.371	-21.785%
punctuation	5.0	64.59	-0.59	-0.905%	52.488	-2.162	-3.955%	70.375	-0.185	-0.263%
typos	5.0	29.7	-35.48	-54.434%	20.639	-34.011	-62.234%	52.806	-17.754	-25.161%
keyboard	5.0	26.47	-38.71	-59.389%	18.532	-36.118	-66.089%	51.758	-18.802	-26.646%
spell_error	5.0	37.8	-27.38	-42.007%	27.914	-26.736	-48.923%	57.844	-12.716	-18.021%
random_char_insert	5.0	27.43	-37.75	-57.917%	17.189	-37.461	-68.548%	51.17	-19.39	-27.480%
random_char_replace	5.0	26.18	-39.0	-59.834%	15.169	-39.481	-72.243%	50.84	-19.72	-27.948%
random_char_swap	5.0	25.84	-39.34	-60.356%	12.403	-42.247	-77.305%	51.572	-18.988	-26.911%
random_char_delete	5.0	27.25	-37.93	-58.193%	13.786	-40.864	-74.774%	51.945	-18.615	-26.382%
to_passive	5.0	62.68	-2.5	-3.836%	50.318	-4.332	-7.927%	68.107	-2.453	-3.477%
tense	5.0	64.34	-0.84	-1.289%	53.458	-1.192	-2.180%	70.504	-0.056	-0.080%
to_formal	5.0	64.71	-0.47	-0.721%	52.687	-1.963	-3.592%	69.987	-0.573	-0.812%
to_casual	5.0	62.48	-2.7	-4.142%	50.111	-4.539	-8.305%	69.485	-1.075	-1.524%
to_active	5.0	63.79	-1.39	-2.133%	52.52	-2.13	-3.897%	69.614	-0.946	-1.341%
double_denial	5.0	65.13	-0.05	-0.077%	53.602	-1.048	-1.919%	70.561	0.001	0.002%
insert_adv	5.0	61.04	-4.14	-6.352%	50.62	-4.03	-7.374%	68.537	-2.023	-2.867%
append_irr	5.0	62.95	-2.23	-3.421%	45.262	-9.388	-17.179%	64.016	-6.544	-9.274%
random_word_insert	5.0	59.59	-5.59	-8.576%	37.534	-17.116	-31.320%	68.25	-2.31	-3.273%
drop_nn	5.0	45.81	-19.37	-29.718%	33.376	-21.274	-38.928%	63.054	-7.506	-10.637%
drop_rand_one_nn	5.0	56.58	-8.6	-13.194%	46.009	-8.641	-15.812%	68.193	-2.367	-3.355%
drop_vb	5.0	57.72	-7.46	-11.445%	37.2	-17.45	-31.931%	68.781	-1.779	-2.521%
drop_vb_nn	5.0	46.33	-18.85	-28.920%	24.312	-30.338	-55.513%	61.547	-9.013	-12.773%
only_nn	5.0	33.76	-31.42	-48.205%	13.85	-40.8	-74.658%	53.165	-17.395	-24.653%
only_vb	5.0	52.2	-12.98	-19.914%	39.521	-15.129	-27.683%	63.715	-6.845	-9.701%
only_vb_nn	5.0	41.64	-23.54	-36.115%	29.369	-25.281	-46.260%	55.993	-14.567	-20.645%
drop_rand_one_vb	5.0	62.16	-3.02	-4.633%	45.421	-9.229	-16.888%	69.413	-1.147	-1.626%
drop_first	5.0	58.75	-6.43	-9.865%	41.334	-13.316	-24.366%	69.384	-1.176	-1.666%
drop_last	5.0	52.99	-12.19	-18.702%	47.042	-7.608	-13.920%	67.719	-2.841	-4.026%
drop_first_and_last	5.0	46.58	-18.6	-28.536%	33.646	-21.004	-38.434%	66.959	-3.601	-5.104%
shuffle_order	5.0	57.7	-7.48	-11.476%	39.426	-15.224	-27.857%	65.839	-4.721	-6.691%
random_word_delete	5.0	46.23	-18.95	-29.073%	31.762	-22.888	-41.881%	62.265	-8.295	-11.756%
swap_syn_word_emb	5.0	45.5	-19.68	-30.193%	34.568	-20.082	-36.746%	56.926	-13.634	-19.323%
swap_syn_word_net	5.0	47.61	-17.57	-26.956%	36.572	-18.078	-33.080%	58.088	-12.472	-17.676%
back_trans	5.0	61.99	-3.19	-4.894%	50.541	-4.109	-7.519%	69.987	-0.573	-0.812%
random_word_swap	5.0	61.02	-4.16	-6.382%	46.414	-8.236	-15.070%	67.36	-3.2	-4.535%
nonsense	5.0	15.33	-49.85	-76.481%	3.999	-50.651	-92.682%	50.768	-19.792	-28.050%

Table 53: Performance and decrease ratio of Multiple Adapters on CLIP-T5 against text corruptions given severity 1 to 4.

<u>Siven severity</u>	10 1.		VQ.	Δ		GQ.	Δ		NLVF	•
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	1.0	56.21	-9.94	-15.026%	42.368	-13.292	-23.881%	51.486	-0.454	-0.875%
punctuation	1.0	65.86	-0.29	-0.438%	52.25	-3.41	-6.127%	51.945	0.005	0.009%
typos	1.0	58.0	-8.15	-12.320%	44.482	-11.178	-20.082%	51.887	-0.053	-0.101%
spell_error	1.0	58.27	-7.88	-11.912%	45.627	-10.033	-18.025%	51.931	-0.009	-0.018%
random_char_insert	1.0	52.05	-14.1	-21.315%	33.948	-21.712	-39.008%	51.457	-0.483	-0.930%
random_char_replace	1.0	48.43	-17.72	-26.788%	29.488	-26.172	-47.021%	51.6	-0.34	-0.654%
random_char_swap	1.0	42.1	-24.05	-36.357%	24.694	-30.966	-55.634%	51.084	-0.856	-1.649%
random char delete	1.0	50.7	-15.45	-23.356%	33.543	-22.117	-39.736%	51.73	-0.21	-0.405%
random_word_insert	1.0	66.12	-0.03	-0.045%	51.026	-4.634	-8.326%	51.916	-0.024	-0.046%
random_word_delete	1.0	65.99	-0.16	-0.242%	52.886	-2.774	-4.984%	51.974	0.034	0.065%
swap_syn_word_emb	1.0	55.5	-10.65	-16.100%	46.367	-9.293	-16.697%	51.959	0.019	0.037%
swap_syn_word_net	1.0	58.86	-7.29	-11.020%	46.303	-9.357	-16.811%	52.017	0.077	0.148%
random_word_swap	1.0	66.05	-0.1	-0.151%	53.148	-2.512	-4.512%	51.974	0.034	0.065%
agrantion	covanity		VQ.	A		GQ.	A		NLVF	<u> </u>
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	55.52	-10.63	-16.070%	36.739	-18.921	-33.994%	51.816	-0.124	-0.239%
punctuation	2.0	65.8	-0.35	-0.529%	52.266	-3.394	-6.098%	51.945	0.005	0.009%
typos	2.0	56.95	-9.2	-13.908%	39.808	-15.852	-28.481%	51.873	-0.067	-0.129%
spell_error	2.0	57.52	-8.63	-13.046%	42.193	-13.467	-24.196%	51.931	-0.009	-0.018%
random_char_insert	2.0	41.01	-25.14	-38.005%	23.199	-32.461	-58.320%	51.026	-0.914	-1.759%
random_char_replace	2.0	35.89	-30.26	-45.745%	18.914	-36.746	-66.019%	51.084	-0.856	-1.649%
random_char_swap	2.0	32.14	-34.01	-51.413%	17.236	-38.424	-69.033%	50.926	-1.014	-1.953%
random_char_delete	2.0	39.09	-27.06	-40.907%	22.905	-32.755	-58.848%	51.443	-0.497	-0.958%
random word insert	2.0	64.5	-1.65	-2.494%	46.391	-9.269	-16.654%	51.787	-0.153	-0.295%
random_word_delete	2.0	61.29	-4.86	-7.347%	46.748	-8.912	-16.011%	51.801	-0.139	-0.267%
swap_syn_word_emb	2.0	54.73	-11.42	-17.264%	42.113	-13.547	-24.338%	52.074	0.134	0.258%
swap_syn_word_net	2.0	58.27	-7.88	-11.912%	43.028	-12.632	-22.696%	52.447	0.507	0.977%
random_word_swap	2.0	64.61	-1.54	-2.328%	50.413	-5.247	-9.426%	51.873	-0.067	-0.129%
			VQ.	A		GQ.	A		NLVF	<u> </u>
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	3.0	50.2	-15.95	-24.112%	29.734	-25.926	-46.578%	51.758	-0.182	-0.350%
punctuation	3.0	65.93	-0.22	-0.333%	52.29	-3.37	-6.055%	52.017	0.077	0.148%
keyboard	3.0	49.68	-16.47	-24.898%	29.575	-26.085	-46.864%	51.629	-0.311	-0.599%
spell_error	3.0	53.07	-13.08	-19.773%	35.339	-20.321	-36.508%	52.045	0.105	0.203%
random_char_insert	3.0	33.16	-32.99	-49.872%	18.262	-37.398	-67.190%	50.624	-1.316	-2.533%
random_char_replace	3.0	29.7	-36.45	-55.102%	15.257	-40.403	-72.589%	50.452	-1.488	-2.865%
random char swap	3.0	27.97	-38.18	-57.717%	14.136	-41.524	-74.603%	50.495	-1.445	-2.782%
random_char_delete	3.0	32.99	-33.16	-50.128%	17.3	-38.36	-68.918%	51.184	-0.756	-1.455%
random_word_insert	3.0	64.18	-1.97	-2.978%	41.867	-13.793	-24.781%	51.916	-0.024	-0.046%
random_word_delete	3.0	58.46	-7.69	-11.625%	42.527	-13.133	-23.596%	51.744	-0.196	-0.377%
swap_syn_word_emb	3.0	50.68	-15.47	-23.386%	35.96	-19.7	-35.394%	51.744	-0.196	-0.377%
swap_syn_word_net	3.0	54.64	-11.51	-17.400%	38.003	-17.657	-31.723%	52.261	0.321	0.617%
random_word_swap	3.0	63.53	-2.76	-4.164%	49.801	-7.019	-12.353%	71.178	-2.882	-3.891%
			VQ.	A		GQ.	A		NLVF	<u> </u>
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	4.0	43.59	-22.56	-34.104%	23.97	-31.69	-56.934%	51.543	-0.397	-0.764%
punctuation	4.0	65.79	-0.36	-0.544%	52.218	-3.442	-6.184%	51.974	0.034	0.065%
keyboard	4.0	39.63	-26.52	-40.091%	23.048	-32.612	-58.591%	51.428	-0.512	-0.985%
spell_error	4.0	45.18	-20.97	-31.701%	29.035	-26.625	-47.835%	51.801	-0.139	-0.267%
random_char_insert	4.0	29.28	-36.87	-55.737%	15.217	-40.443	-72.661%	50.61	-1.33	-2.561%
random_char_replace	4.0	27.14	-39.01	-58.972%	11.83	-43.83	-78.746%	50.969	-0.971	-1.870%
random_char_swap	4.0	26.33	-39.82	-60.197%	12.896	-42.764	-76.832%	50.38	-1.56	-3.003%
random char delete	4.0	29.29	-36.86	-55.722%	14.08	-41.58	-74.703%	51.112	-0.828	-1.593%
random_word_insert	4.0	62.99	-3.16	-4.777%	39.116	-16.544	-29.723%	51.73	-0.21	-0.405%
random_word_delete	4.0	52.44	-13.71	-20.726%	36.095	-19.565	-35.151%	51.959	0.019	0.037%
swap_syn_word_emb	4.0	46.4	-19.75	-29.856%	33.368	-22.292	-40.051%	51.801	-0.139	-0.267%
swap_syn_word_net	4.0	51.54	-14.61	-22.086%	35.069	-20.591	-36.994%	51.988	0.048	0.092%
random_word_swap	4.0	63.41	-2.74	-4.142%	47.392	-8.268	-14.854%	51.73	-0.21	-0.405%

Table 54: Performance and decrease ratio of Multiple Adapters on CLIP-T5 against text corruptions given severity 5.

corruption severity			VQ.	A		GQ/	A		NLVF	}
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	40.21	-25.94	-39.214%	20.52	-35.14	-63.133%	51.414	-0.526	-1.013%
punctuation	5.0	65.68	-0.47	-0.711%	52.512	-3.148	-5.655%	51.988	0.048	0.092%
typos	5.0	30.16	-35.99	-54.407%	18.739	-36.921	-66.333%	50.94	-1.0	-1.925%
keyboard	5.0	26.89	-39.26	-59.350%	15.575	-40.085	-72.018%	51.199	-0.741	-1.428%
spell_error	5.0	38.47	-27.68	-41.844%	25.751	-29.909	-53.735%	51.658	-0.282	-0.543%
random_char_insert	5.0	26.97	-39.18	-59.229%	14.032	-41.628	-74.789%	50.294	-1.646	-3.169%
random_char_replace	5.0	25.94	-40.21	-60.786%	10.097	-45.563	-81.860%	50.682	-1.258	-2.422%
random_char_swap	5.0	26.0	-40.15	-60.695%	13.46	-42.2	-75.817%	50.495	-1.445	-2.782%
random_char_delete	5.0	26.92	-39.23	-59.305%	13.166	-42.494	-76.346%	51.127	-0.813	-1.566%
to_passive	5.0	63.94	-2.21	-3.341%	49.793	-5.867	-10.540%	51.931	-0.009	-0.018%
tense	5.0	65.6	-0.55	-0.831%	53.927	-1.733	-3.113%	51.873	-0.067	-0.129%
to_formal	5.0	65.77	-0.38	-0.574%	53.307	-2.353	-4.227%	51.959	0.019	0.037%
to_casual	5.0	63.87	-2.28	-3.447%	50.366	-5.294	-9.512%	52.017	0.077	0.148%
to_active	5.0	65.03	-1.12	-1.693%	52.457	-3.203	-5.755%	51.83	-0.11	-0.212%
double_denial	5.0	66.06	-0.09	-0.136%	54.174	-1.486	-2.670%	51.959	0.019	0.037%
insert_adv	5.0	62.02	-4.13	-6.243%	49.316	-6.344	-11.397%	52.189	0.249	0.479%
append_irr	5.0	63.63	-2.52	-3.810%	45.381	-10.279	-18.468%	51.844	-0.096	-0.184%
random_word_insert	5.0	61.21	-4.94	-7.468%	35.324	-20.336	-36.537%	51.744	-0.196	-0.377%
drop_nn	5.0	46.98	-19.17	-28.980%	30.879	-24.781	-44.522%	51.615	-0.325	-0.626%
drop_rand_one_nn	5.0	57.98	-8.17	-12.351%	43.393	-12.267	-22.039%	51.887	-0.053	-0.101%
drop_vb	5.0	58.97	-7.18	-10.854%	33.893	-21.767	-39.108%	51.988	0.048	0.092%
drop_vb_nn	5.0	47.81	-18.34	-27.725%	21.379	-34.281	-61.591%	51.443	-0.497	-0.958%
only_nn	5.0	32.59	-33.56	-50.733%	9.199	-46.461	-83.474%	51.141	-0.799	-1.538%
only_vb	5.0	53.28	-12.87	-19.456%	39.816	-15.844	-28.466%	51.873	-0.067	-0.129%
only_vb_nn	5.0	43.48	-22.67	-34.271%	24.853	-30.807	-55.349%	51.328	-0.612	-1.179%
drop_rand_one_vb	5.0	62.94	-3.21	-4.853%	42.543	-13.117	-23.567%	51.959	0.019	0.037%
drop_first	5.0	60.92	-5.23	-7.906%	35.721	-19.939	-35.823%	51.931	-0.009	-0.018%
drop_last	5.0	53.82	-12.33	-18.639%	45.754	-9.906	-17.796%	51.873	-0.067	-0.129%
drop_first_and_last	5.0	47.88	-18.27	-27.619%	28.049	-27.611	-49.607%	51.701	-0.239	-0.460%
shuffle_order	5.0	59.47	-6.68	-10.098%	38.504	-17.156	-30.823%	51.83	-0.11	-0.212%
random_word_delete	5.0	46.73	-19.42	-29.358%	29.13	-26.53	-47.664%	51.902	-0.038	-0.074%
swap_syn_word_emb	5.0	45.91	-20.24	-30.597%	32.676	-22.984	-41.293%	51.701	-0.239	-0.460%
swap_syn_word_net	5.0	46.74	-19.41	-29.342%	33.996	-21.664	-38.922%	51.931	-0.009	-0.018%
back_trans	5.0	62.86	-3.29	-4.974%	50.445	-5.215	-9.369%	51.887	-0.053	-0.101%
random_word_swap	5.0	62.52	-3.63	-5.488%	46.16	-9.5	-17.068%	51.859	-0.081	-0.156%
nonsense	5.0	13.3	-52.85	-79.894%	11.671	-43.989	-79.031%	51.887	-0.053	-0.101%

Table 55: Performance and decrease ratio of Multiple Compacters on CLIP-T5 against text corruptions given severity 1 to 4.

			VO	A .		CO			NLVF	`
corruption	severity	Acc	VQ. Decrease	Decrease Ratio	Acc	GQA Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
	1.0		-9.41	-14.366%	44.069	-10.611	-19.406%			
ocr punctuation	1.0 1.0	56.09 65.02	-9.41 -0.48	-14.366% -0.733%	52.671	-10.611	-19. 4 06% -3.673%	52.835 52.763	0.205 0.133	0.389% 0.253%
typos	1.0	58.04	-7.46	-11.389%	45.103	-2.009 -9.577	-17.515%	52.591	-0.039	-0.075%
keyboard	1.0	56.15	-9.35	-14.275%	44.125	-10.555	-19.304%	52.749	0.119	0.225%
spell_error	1.0	58.07	-7.43	-11.344%	46.581	-8.099	-14.811%	52.634	0.004	0.007%
random_char_insert	1.0	52.37	-13.13	-20.046%	35.92	-18.76	-34.309%	52.95	0.32	0.607%
random_char_replace	1.0	48.48	-17.02	-25.985%	32.199	-22.481	-41.114%	52.634	0.004	0.007%
random_char_swap	1.0	41.69	-23.81	-36.351%	26.976	-27.704	-50.666%	52.921	0.291	0.553%
random_char_delete	1.0	50.45	-15.05	-22.977%	35.681	-18.999	-34.745%	52.806	0.176	0.335%
random_word_insert	1.0	65.51	0.01	0.015%	51.089	-3.591	-6.567%	52.634	0.004	0.007%
random_word_delete	1.0	65.42	-0.08	-0.122%	52.679	-2.001	-3.659%	52.505	-0.125	-0.238%
swap_syn_word_emb	1.0	55.32	-10.18	-15.542%	46.184	-8.496	-15.538%	52.691	0.061	0.116%
swap_syn_word_net	1.0	58.51	-6.99	-10.672%	46.963	-7.717	-14.113%	52.835	0.205	0.389%
random_word_swap	1.0	65.49	-0.01	-0.015%	52.759	-1.921	-3.514%	52.576	-0.054	-0.102%
Tandoni_word_swap	1.0	05.47			32.137			32.370		
corruption	severity		VQ.			GQ/			NLVF	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	2.0	55.24	-10.26	-15.664%	40.11	-14.57	-26.646%	52.462	-0.168	-0.320%
punctuation	2.0	65.13	-0.37	-0.565%	52.703	-1.977	-3.615%	52.505	-0.125	-0.238%
typos	2.0	56.76	-8.74	-13.344%	40.945	-13.735	-25.120%	52.576	-0.054	-0.102%
keyboard	2.0	55.84	-9.66	-14.748%	38.949	-15.731	-28.769%	52.447	-0.183	-0.347%
spell_error	2.0	57.51	-7.99	-12.198%	43.353	-11.327	-20.714%	52.72	0.09	0.171%
random_char_insert	2.0	41.9	-23.6	-36.031%	26.483	-28.197	-51.568%	52.806	0.176	0.335%
random_char_replace	2.0	36.5	-29.0	-44.275%	23.048	-31.632	-57.849%	52.806	0.176	0.335%
random_char_swap	2.0	32.15	-33.35	-50.916%	20.862	-33.818	-61.847%	52.863	0.233	0.444%
random_char_delete	2.0	39.44	-26.06	-39.786%	26.332	-28.348	-51.844%	52.447	-0.183	-0.347%
random_word_insert	2.0	64.02	-1.48	-2.260%	47.957	-6.723	-12.296%	52.591	-0.133	-0.075%
	2.0	60.66	-4.84	-7.389%	46.78	-0.723 -7.9			-0.039	-0.073%
random_word_delete	2.0	54.6	-4.84 -10.9	-7.389% -16.641%	42.638	-7.9 -12.042	-14.448% -22.023%	52.619 52.634	0.004	0.020%
swap_syn_word_emb	2.0	58.0	-10.9 -7.5							
swap_syn_word_net	2.0	63.9	-7.5 -1.6	-11.450% -2.443%	44.101 50.326	-10.579 -4.354	-19.347% -7.963%	52.763 52.691	0.133 0.061	0.253% 0.116%
random_word_swap	2.0	03.9	-1.0	-2.445%	30.326	-4.334	-7.903%	32.091	0.061	0.116%
communican	corrositre		VQ.	A		GQ/	A		NLVF	₹
corruption	severity	Acc	VQ. Decrease	A Decrease Ratio	Acc	GQ/ Decrease	A Decrease Ratio	CIDer	NLVF Decrease	R Decrease Ratio
			Decrease	Decrease Ratio		Decrease	Decrease Ratio		Decrease	Decrease Ratio
ocr	3.0	50.66	Decrease -14.84	Decrease Ratio	33.241	Decrease -21.439	Decrease Ratio	52.863	Decrease 0.233	Decrease Ratio 0.444%
ocr punctuation	3.0	50.66 65.1	-14.84 -0.4	-22.656% -0.611%	33.241 52.576	Decrease -21.439 -2.104	-39.209% -3.848%	52.863 52.663	0.233 0.033	0.444% 0.062%
ocr punctuation typos	3.0 3.0 3.0	50.66 65.1 52.35	Decrease -14.84 -0.4 -13.15	-22.656% -0.611% -20.076%	33.241 52.576 34.425	-21.439 -2.104 -20.255	-39.209% -3.848% -37.042%	52.863 52.663 52.734	0.233 0.033 0.104	0.444% 0.062% 0.198%
ocr punctuation typos keyboard	3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94	Decrease -14.84 -0.4 -13.15 -15.56	-22.656% -0.611% -20.076% -23.756%	33.241 52.576 34.425 32.39	Decrease -21.439 -2.104 -20.255 -22.29	-39.209% -3.848% -37.042% -40.765%	52.863 52.663 52.734 52.562	0.233 0.033 0.104 -0.068	0.444% 0.062% 0.198% -0.129%
ocr punctuation typos keyboard spell_error	3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94	-14.84 -0.4 -13.15 -15.56 -12.56	-22.656% -0.611% -20.076% -23.756% -19.176%	33.241 52.576 34.425 32.39 36.58	Decrease -21.439 -2.104 -20.255 -22.29 -18.1	-39.209% -3.848% -37.042% -40.765% -33.102%	52.863 52.663 52.734 52.562 52.39	0.233 0.033 0.104 -0.068 -0.24	0.444% 0.062% 0.198% -0.129% -0.456%
ocr punctuation typos keyboard spell_error random_char_insert	3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -31.14	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542%	33.241 52.576 34.425 32.39 36.58 21.943	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737	-39.209% -3.848% -37.042% -40.765% -33.102% -59.870%	52.863 52.663 52.734 52.562 52.39 52.964	0.233 0.033 0.104 -0.068 -0.24 0.334	0.444% 0.062% 0.198% -0.129% -0.456% 0.635%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace	3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36 30.41	-14.84 -0.4 -13.15 -15.56 -12.56 -31.14 -35.09	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573%	33.241 52.576 34.425 32.39 36.58 21.943 20.019	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -63.389%	52.863 52.663 52.734 52.562 52.39 52.964 52.648	0.233 0.033 0.104 -0.068 -0.24 0.334 0.018	0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36 30.41 28.04	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -31.14 -35.09 -37.46	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573% -57.191%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 18.819	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661 -35.861	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -63.389% -65.584%	52.863 52.663 52.734 52.562 52.39 52.964 52.648 52.691	0.233 0.033 0.104 -0.068 -0.24 0.334 0.018 0.061	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035% 0.116%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36 30.41 28.04 33.37	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -31.14 -35.09 -37.46 -32.13	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573% -57.191% -49.053%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 18.819 21.744	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661 -35.861 -32.936	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -63.389% -65.584% -60.234%	52.863 52.663 52.734 52.562 52.39 52.964 52.648 52.691 52.347	0.233 0.033 0.104 -0.068 -0.24 0.334 0.018 0.061 -0.283	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035% 0.0116% -0.538%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_word_insert	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36 30.41 28.04 33.37 62.96	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -23.1.14 -35.09 -37.46 -32.13 -2.54	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573% -57.191% -49.053% -3.878%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 18.819 21.744 43.059	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661 -35.861 -32.936 -11.621	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -63.389% -65.584% -60.234% -21.252%	52.863 52.663 52.734 52.562 52.39 52.964 52.648 52.691 52.347 52.878	0.233 0.033 0.104 -0.068 -0.24 0.334 0.018 0.061 -0.283 0.248	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035% 0.116% -0.538% 0.471%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_delete random_word_insert random_word_delete	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 52.94 34.36 30.41 28.04 33.37 62.96 57.83	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -31.14 -35.09 -37.46 -32.13 -2.54 -7.67	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573% -57.191% -49.053% -3.878% -11.710%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 18.819 21.744 43.059 42.892	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661 -35.861 -32.936 -11.621 -11.788	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -63.389% -65.584% -60.234% -21.252% -21.558%	52.863 52.663 52.734 52.562 52.39 52.964 52.648 52.691 52.347 52.878 52.591	0.233 0.033 0.104 -0.068 -0.24 0.334 0.018 0.061 -0.283 0.248 -0.039	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035% 0.116% -0.538% 0.471% -0.075%
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ocr punctuation typos keyboard spell_error random_char_insert random_char_swap random_char_swap random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_emb swap_syn_word_emb corruption ocr punctuation keyboard spell_error random_char_insert random_char_insert random_char_faradom_char_faradom_char_delete random_word_insert random_word_insert random_word_insert random_word_delete swap_syn_word_emb swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 34.36 30.41 28.04 33.37 62.96 57.83 50.75 54.67 63.04 Acc 44.0 65.04 40.22 45.31 29.9 27.68 26.24 51.76 46.65 51.37	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -31.14 -35.09 -37.46 -32.13 -2.54 -7.67 -14.75 -10.83 -2.46 VQ. Decrease -21.5 -0.46 -25.28 -20.19 -35.6 -37.82 -39.26 -35.77 -3.98 -13.74 -18.85 -14.13	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.1766% -47.542% -53.573% -57.191% -49.053% -3.878% -11.710% -16.534% -3.756% A Decrease Ratio -32.824% -0.702% -38.595% -30.824% -54.351% -57.740% -59.939% -54.611% -6.076% -20.977% -28.779% -21.573%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 18.819 21.744 43.059 36.993 39.235 48.227 Acc 28.224 52.512 25.409 31.03 20.067 18.445 18.246 18.954 39.696 36.818 33.916 36.953	Decrease -21,439 -2,104 -20,255 -22,29 -18,1 -32,737 -34,661 -35,861 -32,936 -11,621 -11,788 -17,687 -15,445 -6,453 GQ/ Decrease -26,456 -2,168 -29,271 -23,65 -34,613 -36,235 -36,434 -35,726 -14,984 -17,862 -20,764 -17,727	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -63.389% -65.584% -60.234% -21.252% -21.558% -32.346% -28.246% -11.801% A Decrease Ratio -48.384% -53.531% -43.251% -63.301% -66.268% -66.631% -65.337% -27.403% -32.666% -37.973% -32.419%	52.863 52.663 52.734 52.562 52.39 52.964 52.691 52.591 52.663 52.576 CIDer 52.964 52.663 52.596 52.596 52.596 52.596 52.596 52.562 52.596 52.5	Decrease 0.233 0.033 0.104 -0.068 -0.24 0.334 0.018 0.061 -0.283 -0.054 NLVF Decrease 0.334 0.033 -0.054 0.034 -0.080 0.001 -0.082 0.0061 -0.082 0.0061 -0.082 -0.14 -0.025 -0.068 0.262 0.09 0.205 0.004	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.635% 0.035% 0.116% -0.538% 0.471% -0.075% 0.116% 0.062% -0.102% **Decrease Ratio 0.635% 0.062% 0.062% -0.1065% -0.156% -0.265% -0.265% -0.265% -0.47% -0.129% 0.498% 0.171% 0.389% 0.007% 0.471%
ocr punctuation typos keyboard spell_error random_char_insert random_char_replace random_char_swap random_char_delete random_word_delete swap_syn_word_ent swap_syn_word_net random_word_swap corruption ocr punctuation keyboard spell_error random_char_insert random_char_insert random_char_insert random_char_delete random_char_swap random_char_delete random_word_insert random_word_insert random_word_delete swap_syn_word_emb	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	50.66 65.1 52.35 49.94 34.36 30.41 28.04 33.37 62.96 57.83 50.75 54.67 63.04 40.22 45.31 29.9 27.68 26.24 29.73 61.52 51.76 46.65	Decrease -14.84 -0.4 -13.15 -15.56 -12.56 -12.56 -31.14 -35.09 -37.46 -32.13 -2.54 -7.67 -14.75 -10.83 -2.46 VQ. Decrease -21.5 -0.46 -25.28 -20.19 -35.6 -37.82 -39.26 -35.77 -3.98 -13.74 -18.85	Decrease Ratio -22.656% -0.611% -20.076% -23.756% -19.176% -47.542% -53.573% -57.191% -49.053% -3.878% -11.710% -22.519% -16.534% -3.756% A Decrease Ratio -32.824% -0.702% -38.595% -38.595% -54.351% -57.740% -59.939% -54.611% -6.076% -20.977% -28.779%	33.241 52.576 34.425 32.39 36.58 21.943 20.019 21.744 43.059 36.993 39.235 48.227 Acc 28.224 52.512 25.409 31.03 20.067 18.445 18.954 39.696 36.818 33.916	Decrease -21.439 -2.104 -20.255 -22.29 -18.1 -32.737 -34.661 -35.861 -32.936 -11.621 -11.788 -17.687 -15.445 -6.453 GQ2 Decrease -26.456 -2.168 -29.271 -23.65 -34.613 -36.235 -36.434 -35.726 -14.984 -17.862 -20.764	Decrease Ratio -39.209% -3.848% -37.042% -40.765% -33.102% -59.870% -65.584% -60.234% -21.252% -21.558% -32.346% -28.246% -11.801% A Decrease Ratio -48.384% -3.964% -53.531% -63.301% -66.268% -66.631% -65.337% -27.403% -32.666% -37.973%	52.863 52.663 52.734 52.562 52.39 52.964 52.691 52.347 52.878 52.591 52.663 52.576 CIDer 52.964 52.663 52.691 52.549 52.552 52.576 52.592 52.576 52.592 52.592 52.592 52.592 52.592 52.592 52.663	Decrease 0.233 0.033 0.104 -0.068 -0.24 0.334 0.061 -0.283 -0.054 NLVF Decrease 0.334 0.033 0.061 -0.082 -0.14 -0.082 -0.14 -0.056 0.262 0.09 0.205 0.004	Decrease Ratio 0.444% 0.062% 0.198% -0.129% -0.456% 0.035% 0.035% 0.116% -0.538% 0.471% -0.075% 0.116% 0.062% -0.102% } Decrease Ratio 0.635% 0.062% 0.116% -0.156% -0.265% -0.129% 0.119% 0.119% 0.389% 0.171% 0.389% 0.007%

Table 56: Performance and decrease ratio of Multiple Compacters on CLIP-T5 against text corruptions given severity 5.

corruption	severity		VQ.			GQ.			NLVI	
corruption	severity	Acc	Decrease	Decrease Ratio	Acc	Decrease	Decrease Ratio	CIDer	Decrease	Decrease Ratio
ocr	5.0	41.0	-24.5	-37.405%	25.648	-29.032	-53.094%	52.691	0.061	0.116%
punctuation	5.0	65.07	-0.43	-0.656%	52.449	-2.231	-4.081%	52.605	-0.025	-0.047%
typos	5.0	30.91	-34.59	-52.809%	20.472	-34.208	-62.560%	52.749	0.119	0.225%
keyboard	5.0	26.77	-38.73	-59.130%	18.501	-36.179	-66.166%	52.619	-0.011	-0.020%
spell_error	5.0	38.84	-26.66	-40.702%	27.5	-27.18	-49.707%	52.576	-0.054	-0.102%
random_char_insert	5.0	27.82	-37.68	-57.527%	18.978	-35.702	-65.293%	52.792	0.162	0.307%
random_char_replace	5.0	26.28	-39.22	-59.878%	17.825	-36.855	-67.402%	52.677	0.047	0.089%
random_char_swap	5.0	25.39	-40.11	-61.237%	19.025	-35.655	-65.206%	52.619	-0.011	-0.020%
random_char_delete	5.0	27.45	-38.05	-58.092%	18.127	-36.553	-66.849%	52.734	0.104	0.198%
to_passive	5.0	63.2	-2.3	-3.511%	50.533	-4.147	-7.585%	52.892	0.262	0.498%
tense	5.0	64.88	-0.62	-0.947%	53.299	-1.381	-2.525%	52.72	0.09	0.171%
to_formal	5.0	65.13	-0.37	-0.565%	53.029	-1.651	-3.019%	52.663	0.033	0.062%
to_casual	5.0	63.47	-2.03	-3.099%	50.628	-4.052	-7.410%	52.591	-0.039	-0.075%
to_active	5.0	64.3	-1.2	-1.832%	52.52	-2.16	-3.950%	52.706	0.076	0.144%
double_denial	5.0	65.38	-0.12	-0.183%	53.689	-0.991	-1.812%	52.605	-0.025	-0.047%
insert_adv	5.0	61.87	-3.63	-5.542%	48.815	-5.865	-10.725%	52.691	0.061	0.116%
append_irr	5.0	63.24	-2.26	-3.450%	46.247	-8.433	-15.422%	52.749	0.119	0.225%
random_word_insert	5.0	59.47	-6.03	-9.206%	36.19	-18.49	-33.815%	52.749	0.119	0.225%
drop_nn	5.0	44.59	-20.91	-31.924%	31.476	-23.204	-42.437%	52.691	0.061	0.116%
drop_rand_one_nn	5.0	57.16	-8.34	-12.733%	44.785	-9.895	-18.097%	52.447	-0.183	-0.347%
drop_vb	5.0	58.28	-7.22	-11.023%	39.911	-14.769	-27.010%	52.404	-0.226	-0.429%
drop_vb_nn	5.0	44.28	-21.22	-32.397%	26.117	-28.563	-52.237%	52.691	0.061	0.116%
only_nn	5.0	28.05	-37.45	-57.176%	18.373	-36.307	-66.398%	52.375	-0.255	-0.484%
only_vb	5.0	52.25	-13.25	-20.229%	39.172	-15.508	-28.362%	52.232	-0.398	-0.756%
only_vb_nn	5.0	42.0	-23.5	-35.878%	29.09	-25.59	-46.799%	52.332	-0.298	-0.565%
drop_rand_one_vb	5.0	62.42	-3.08	-4.702%	45.929	-8.751	-16.003%	52.519	-0.111	-0.211%
drop_first	5.0	59.21	-6.29	-9.603%	40.483	-14.197	-25.963%	52.548	-0.082	-0.156%
drop_last	5.0	53.91	-11.59	-17.695%	46.724	-7.956	-14.549%	52.505	-0.125	-0.238%
drop_first_and_last	5.0	46.85	-18.65	-28.473%	33.535	-21.145	-38.671%	52.835	0.205	0.389%
shuffle_order	5.0	57.27	-8.23	-12.565%	39.959	-14.721	-26.923%	52.576	-0.054	-0.102%
random_word_delete	5.0	46.13	-19.37	-29.573%	30.951	-23.729	-43.396%	52.677	0.047	0.089%
swap_syn_word_emb	5.0	46.29	-19.21	-29.328%	32.716	-21.964	-40.169%	52.648	0.018	0.035%
swap_syn_word_net	5.0	48.37	-17.13	-26.153%	35.88	-18.8	-34.382%	52.591	-0.039	-0.075%
back_trans	5.0	62.16	-3.34	-5.099%	50.262	-4.418	-8.079%	52.648	0.018	0.035%
random_word_swap	5.0	61.58	-3.92	-5.985%	46.096	-8.584	-15.698%	52.648	0.018	0.035%
nonsense	5.0	22.31	-43.19	-65.939%	9.103	-45.577	-83.352%	52.663	0.033	0.062%

Table 57: Performance and decrease ratio of Single Adapter on CLIP-T5 against text corruptions given severity 1 to 4.

Corruption Severity Corresponder Correspo	<u>Siven severity</u>			WO			CO			NLVF	
Productation 1.0 65.58 0.83 1.250% 48.998 6.902 1.2347% 72.686 0.094 0.1036% keyboard 1.0 56.45 0.906 -12.137% 41.09 -12.026 -22.857% 69.72 -3.08 4.223% spell_ceror 1.0 56.45 0.906 -14.199% 41.0 -14.99 -26.654% 69.72 -3.08 4.223% spell_ceror 1.0 56.45 0.906 -14.199% 41.0 -14.99 -26.654% 69.72 -3.08 4.223% spell_ceror 1.0 54.46 7.99 -11.971% 42.724 -12.626 -22.857% 69.47 -3.08 4.223% -13.191% -12.121 -12.626 -22.857% 69.47 -3.08 4.223% -13.191% -12.121 -12.626 -22.857% 69.47 -3.08 -4.223% -13.191% -12.121 -12.626 -22.857% 69.47 -3.08 -4.223% -12.121 -12.626 -22.857% -22.83857% 69.47 -3.184 -4.223% -12.121 -22.626 -22.857% -22.83857% 69.47 -3.184 -22.226% -22.857% -22.83	corruption	severity	Acc			Acc			CIDer		
Neyboard 1.0 58.55 8.06 -12.137% 42.399 -13.501 -2.4151% 69.829 -2.951 4.0454% exception 1.0 58.46 -7.95 -11.971% 43.274 -12.626 -2.2587% 69.77 -3.31 -4.457% random_char_insert 1.0 52.25 -14.16 -2.13.22% 34.179 -2.1721 -38.857% 64.49 -3.29 -11.301% -2.172% -2.2587% -2.2587% 64.49 -3.29 -11.301% -2.2587%	ocr	1.0	56.11	-10.3	-15.510%	40.539	-15.361	-27.479%	58.892	-13.888	-19.082%
Reybeard 1,0 56.45 9.96 -14.99% 41.0 -14.9 -26.654% 69.77 -3.08 -4.222% random_char_insert 1.0 52.25 -14.16 -21.322% 34.179 -21.721 -3.8857% 69.47 -3.1931%	punctuation	1.0	65.58	-0.83	-1.250%	48.998	-6.902	-12.347%	72.686	-0.094	-0.130%
Septilemore 1.0 8.44 -7.95 -11.971% 43.274 -12.266 -22.887% 69.47 -3.31 -4.547% random_char_replace 1.0 48.57 -17.84 -26.863% 32.199 -23.701 -23.99% 63.666 -10.214 -14.043% random_char_swap 1.0 42.15 -24.26 -36.531% -27.477 -24.22 -50.847% -56.66 -10.214 -14.043% random_char_char_swap 1.0 60.19 -0.25 -4.331% -4.21.25 -24.26 -36.531% -23.76% -34.26 -36.531% -34.26 -34	typos	1.0	58.35	-8.06	-12.137%	42.399	-13.501	-24.151%	69.829	-2.951	-4.054%
random_char_insert 1.0 52.25	keyboard	1.0	56.45	-9.96	-14.998%	41.0	-14.9	-26.654%	69.7	-3.08	-4.232%
random_char_replace 1.0 48.57 17.84 2-0.863 2.199 2.3701 42.399 62.566 10.14 2.40.088 random_char_delete 1.0 51.55 14.86 2.247 2.477 38.957 62.868 9.912 1.36198 random_char_delete 1.0 61.9 0.22 -0.3316 47.399 47.391 38.957 62.868 9.912 1.36198 random_char_delete 1.0 66.26 0.15 0.226 4.387 47.391 38.957 62.868 9.912 1.4318 random_cond_delete 50.00 50.0 10.41 -15.6758 42.87 -1.18 1.28449 71.738 -1.042 1.4318 random_cond_delete 50.00 60.33 -0.088 -0.1209 48.672 -7.18 -1.28449 71.738 -1.042 -1.3319 random_cond_delete 50.00 60.33 -0.088 -0.1209 48.672 -7.18 -1.28449 71.738 -1.042 -1.3319 random_cond_delete 50.00 50.38 -1.2888 -1.28849 -7.188 -1.28449 -7.188 -7.288 -2.2989 -7.288 -2.2989 -7.288 -2.2989 -7.288 -2.2989 -7.2888 -2.2988 -7.28888 -7.2888 -7.2888 -7.2888 -7.2888 -7.2888 -7.28888 -7.2888 -7.28888 -7.2888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.28888 -7.288888 -7.28888 -7.28888 -7.28888 -7.288888 -7.28888 -7.2888											
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