

DynamicViT

1. $x \in \mathbb{R}^n$ z $v \in \mathbb{R}^n$:

- ```
- **i~€lfo**y %oA%ETransformery ViTÿ W(VpPíR |{{INûR;N-^hs°Qú,rÿ OFQvç{|—Y gB^šØÿ \SQvf/êl
- **h8_Ã%oÂ[ß**ÿ ViTv,,g ~È~,mKNÂO•VNŽ\ 'İOá oN0[iv,,VpPíWWÿ tokensÿ ÿ QvOYY'•èR tokensQ—C
- **vîh **ÿ cDQÚN yÍR"" Rjg•e1İÖÿ DynamicViTÿ ÿ ••Ç• keyû—dQ—OYtokensÿ f>„W—MONç{|—'İÿ FLOF
```

#### 2.  $e^+ \bar{\nu}_e e^-$

- \*\*R TokenRjg•hFg¶\*\*  
- \*\*R \BRjg• W(Transformerv,,N T \BcÔQe•{‘İ~\$~,mKj!WWÿ • keRjg•Q—OYtokensÿ Y,12\Bj!W‘N-ÿ \  
- \*\*~,mKj!WWç¼ç¶\*\* ~ÓT \@•èry\_•ÿ \_SRMtokensÿ TœQh\@ry\_•ÿ VpPİN N eþÿ ÿ • ÇMLPu b kİN\*tok  
- \*\*xİNöSËY}’\*\*ÿ Rjg•T v,,—~Óg,,S tokensNÍSi• • Ç•êlèa R›g:R6šØeH^v^Lç{—0
- \*\*ç~ÃÖ S b€g/\*\*  
- \*\*Gumbel-Softmax\*\*ÿ %œãQ³NœP<Q³{Vÿ OYúY/N" \_ ÿ v,,N Si\_@•~ÿ e/c zİR0ziç~Ã0  
- \*\*lèa R›ç@x ÿ Attention Maskingÿ \*\*ÿ • Ç—;e-^«Rjg•tokensN QvNÖtokensv,,NœNÿ ••QMvôc¥R —d[ü•  
- \*\*c\_Y1Qýep\*\*ÿ ~ÓT R |{c\_Y1ÿ Cross-Entropyÿ 0 „,™•c\_Y1ÿ j!NÿeY^j!Wçÿ 0 KLec^ÿ •“Qún •ô`ÿ T

#### 3. [žšœ~Ógœ

- ```
- **'€ý[ùkÔ**ý
- **Rjg•eHgœ**ý Rjg•66%v,,tokensý OÝuYs‡< Ó ã•ðÝðÄdÄö 5 öÁ 3 Wã3r_ðÄAâA_ ö= 4sC R¿ðÇĚäē
- **!W<[ùkÔ**ý DynamicViT-LV-M/0.7W(8.5G FLOPsN_¾R083.8%QÆxns‡ý O NŽEfficientNet-B5ý 9
- **S'‰ÆS R g•**ý Rjg•Çz • n ∈Zq&NŽVpPĪN-v,,Qs•.S:Wßý Y,riOSN-_Äý ý Xž_-!W<S'‰•ã'Ě`'0
```

4. $Q_{s \bullet 0} R_i$

- ```
- **R"" • ^""i""y h9cn•“QeQ...['R"" Œ etRjg•{Vueÿ O NŽ—Y` Rjg•b ~Óg,,S N ‘Çh70
- **biU`i""y • u(NŽY yÍViTSØOSÿ DeiT0 LV-ViT{lÿ ÿ N W(Y'j!W'ÿ Y,384x384•“Qeÿ N Níg eHÿ FLOPsQ
- **eHs‡N |¾^!^s^a""y • •ÇR \BRjg•TŒ•êlèa R'ry`ÿ {žs°xlNöSËY}v,,R • 0
```

#### 5.  $g^*gee^1T$

- \*\*NûR;biÜ\*\*ÿ ^"u(NŽ%oÆ~R |{0 [Æ-Æ~,mKÿ Y,R Rr0 hÀmKÿ NûR;0  
- \*\*€TT O S \*\*ÿ ~ÓT j!W{1/2!^}e>N R"" Rig•ÿ •ûN keO S {j{—eHs±0

#### 6. `;~Ó

DynamicViT • ÇR tokenRjg • y™ - k!W(ViT N-[žs°N†zz • ôz u • `v„šØeHR)u(ÿ N:TransformerR • \_ • YN†e°