



AGA patch -> D dimension -> Position Encoding -> CLS token at pas 0

for entire
image

Egan3

eg. 224.224 = 196 patches

-16×10 mords

Requirement: Find suberance 6/w Potch 4

Existing representation might not cater to whats relevant

W&

(UK)

 ω_{\vee}

Criteria of Relevance

nead

now to transform patch

critoria cimilar antonio

Dxhead dimension give similar products (xD) x CD x head C Potches will be to ansformed to this dimexion for patch 10 use Q1 to find whileh potetres are most relevant to it --- d'#parches) = softmax solevana # potales be 4 atripion W WX4

4XV Query i Key j 4 x heary Oxhead dimension 4x head dim botchcontext representation of patch i heads Query -> Relevance for multiple factors -multiple heads 4x #heads x head dim -> fe layer -> 4xD ω concertenane

.

So one W is enough, split to unback into # potches. #heads . 3. #dum w J Split into three Dx #heads x3x#drim Split each head by rearrange QsKJVJ Self Attention Block Scaled dot product and softmax Compute veighted V Rearrage, jour each head necisot onto D

doubles -