ransformer.

(comp-tational efficiency Scalability can handle arbitrary sequence lengths lack some of the inductive biases inherent to CANNS, such as translation equivariance and locality, and therefore do not generalize well when trained on insufficient amounts of data.

Vision Transformer:

Sequence of

flattered 2D parches

Xp E RNX(P2, e) inage Constant latent Vedor XERHXWXC patch

 $\left(N = \frac{HM}{b^2}\right)$ Chhedding Constant
Latent vector

Transformers

Position Embeddings

MSA: Multiheaded Seif-attention

MLP: GELU non-linearity

7. = [Xdass; XpE; XpE; XpE; ...; XpE]+Epos 2. = MSA(LN(ZLI)) + ZLI

Z₁ = MLP(LN(Z₁)) + Z₁

y = LN(ZL)

EERPLES ; EposeR(N+1)XD ; l=1,...,L

Attach a Zero-initialized Dxk feed forward layer

Fine-tuning Accuracies: capture the performance of each model after fine-tuning it on the respective dataset,

Few-shot accuracies: obtained by solving a regularized linear regression problem that maps the (frozen) representation of a subset of training images to 2-1, 11th target vectors.

(for fast on-the-fly evaluation where fine-tuning would be too