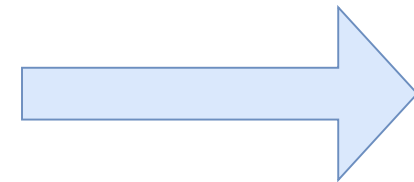
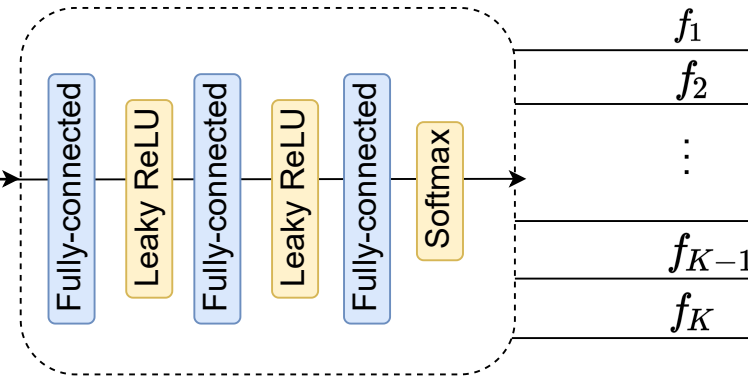


Laplacian pyramid with  
band number  $n_L = 5$



Extract patches  
of size 3x3  
and flatten

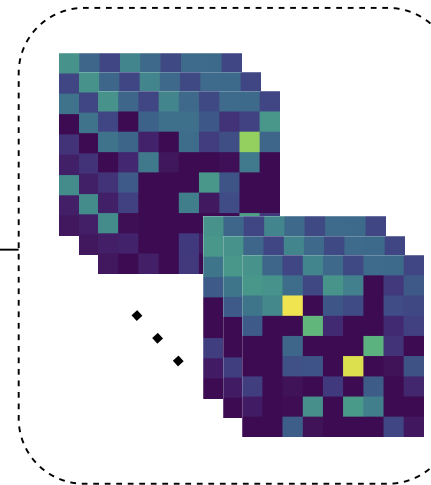
$\mathbf{x}$



MLP Block

$$\mathbf{y}(\mathbf{x}) = \sum_{k=1}^K f_k(\mathbf{x}) \mathbf{A}_k \mathbf{x}$$

$$L_{loss} = \mathbb{E}_{X,Y} ||\mathbf{y}_i - \mathbf{y}(\mathbf{x}_i)||$$



Transformation Matrices –  $\mathbf{A}$

Same process applied to each Laplacian layer.