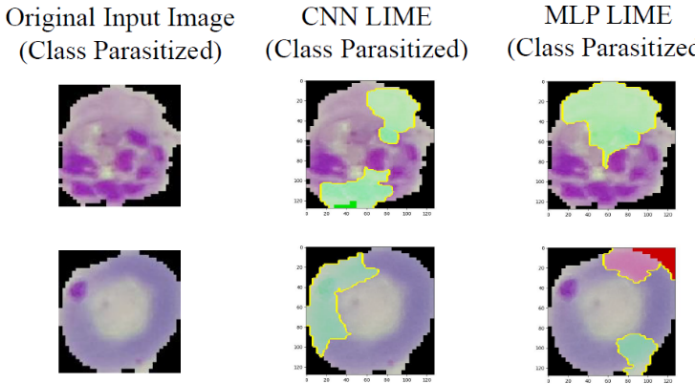
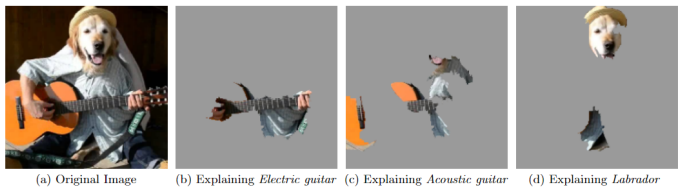
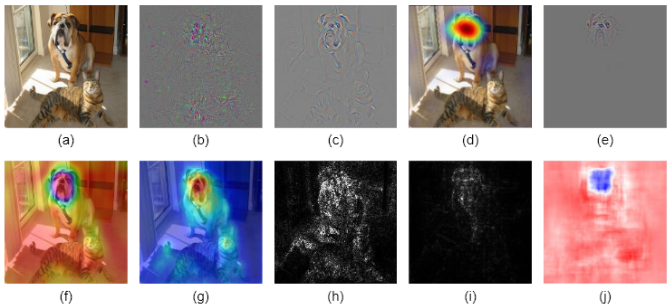
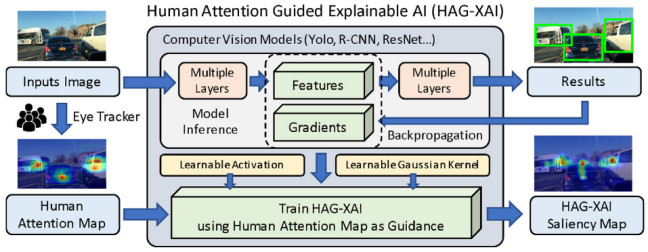
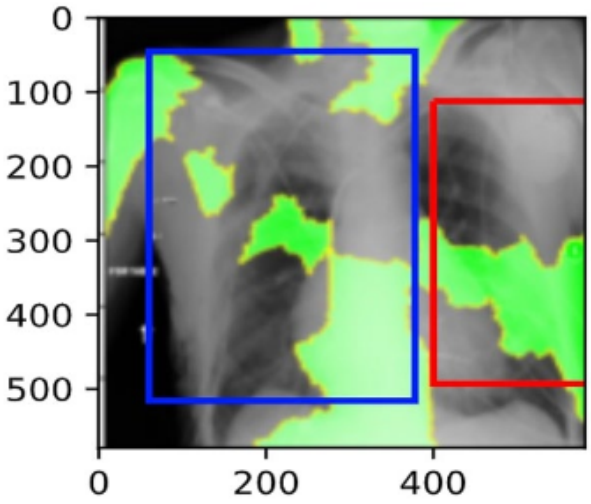
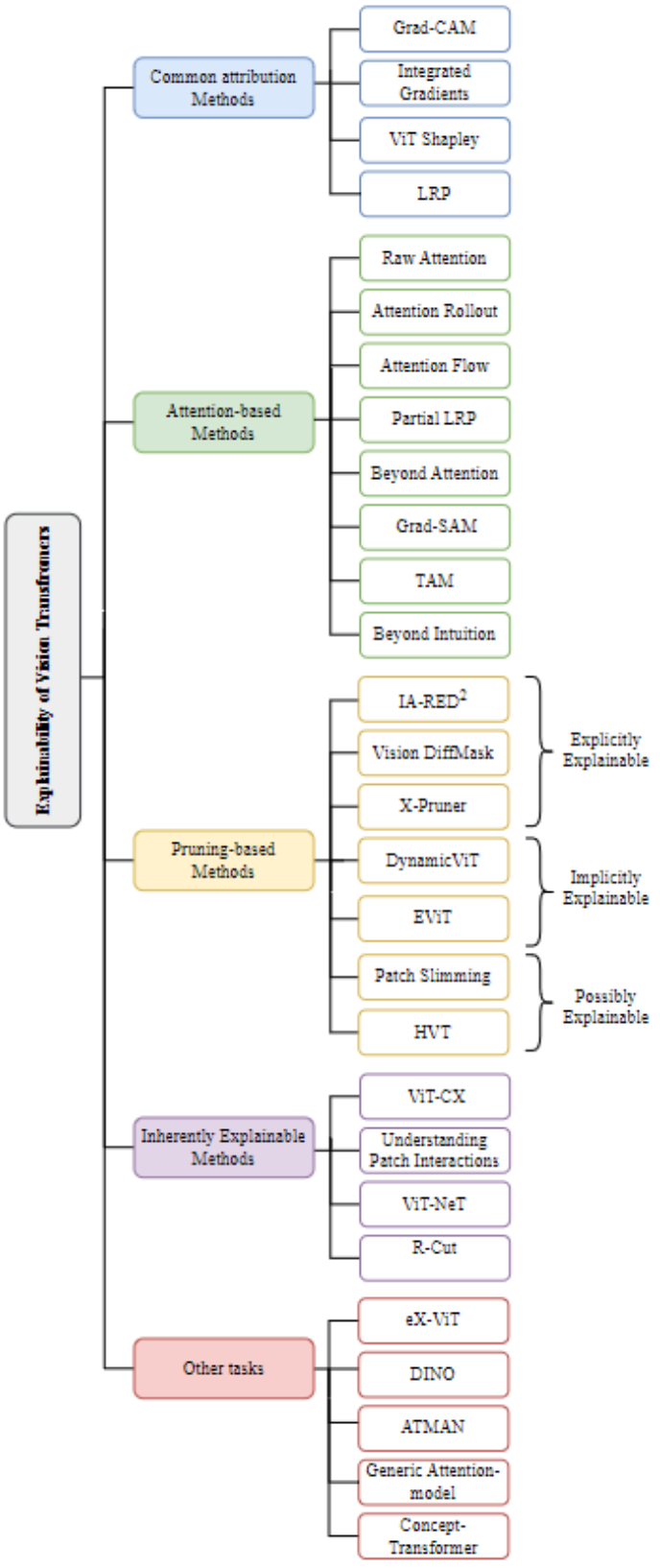
Survey

Title	Domain	Abstract
An image is worth 16x16 words	general	images -> patches -> flattening (not conv) -> linear PE -> multihead attn -> classification head lower scores than Resnet
Transparency and Trust in Human-AI-Interaction: The Role of Model-Agnostic Explanations in Computer Vision-Based Decision Support	XAI + CV	malaria detection in cell kaggle dataset LIME local interpretable agnostic explainations (python library) 
"Why Should I Trust You?" Explaining the Predictions of Any Classifier	XAI	 medium article

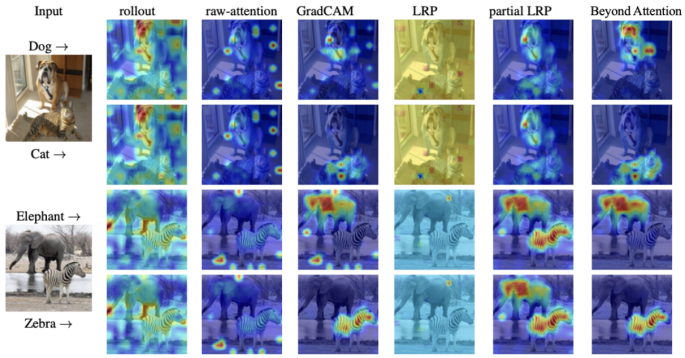
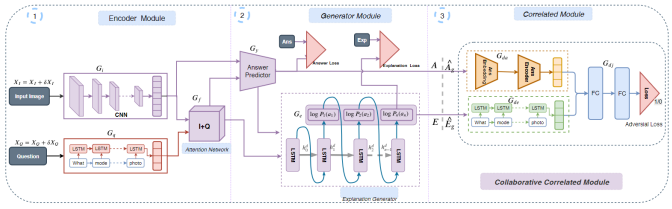
Title	Domain	Abstract
Attribution-based XAI Methods in Computer Vision: A Review	XAI	 Figure 1: Visualizing attribution-based XAI methods' outputs for 'dog' class: (a) original input image, (b) backpropagated gradients, (c) guided backpropagation, (d) Grad-CAM, (e) guided Grad-CAM, (f) Score-CAM, (g) FullGrad, (h) Integrated Gradients, (i) SmoothGrad, and (j) occlusion sensitivity map. attribution based methods : **gradient-based method** -> generated saliency maps, DeConvNet, pixels responsible for activation, gap, cam **perturbation-based methods** -> change in network output on few deviations, adversarial perturbation (not seen by human but cause major changes), model weights not required, RISE **contrastive methods** -> contrastive explanation method (CEM), CDeepEx needs model's para & latent space vision models look look at diff place than those of humans
Human attention guided explainable artificial intelligence for computer vision models	HAG-XAI	 eye tracker for human attn, used learnt kernel and activations for vision model

Title	Domain	Abstract
ViT: Quantifying Chest X-Ray Images Using Vision Transformer & XAI Technique	ViT + XAI	 LIME, bouding box formulation
Explainability of Vision Transformers	ViT + XAI	

Title	Domain	Abstract



TAM : considers info flow in ViT as markov process

Title	Domain	Abstract
		 CIFAR, ImageNet
XAI Benchmark for Visual Explanation	Benchmarks	Datasets for XAI + Vision
X-Vision: Explainable Image Retrieval by Re-Ranking in Semantic Space	Image Retrieval XAI	**input** : q = Query Image, Result from Base Ranker, D = {d1, d2,..., dk} **output**: Result after Re-Ranking {d1', d2', ..., dk' } ∈ D' *class_labels = list of class labels possible for the dataset* *let f be a function, where given an image as input, it returns n-dimensional vector where each dimension counts the incidence of each type of N objects, where N = length(class_labels).* *qv = f(q)* **for** *i* ← 1 **to** *k* **do** *di'v = f(di')* *object_similarity = cosine(qv, di'v)* **for** *class_type* ← 1 **to** *n* **do** **if** *di' and q both contains class_labels[class_type] type object* **then** *color_similarity[class_type] = rerank_color_similarity(di', q, class_labels[class_type])* *size_similarity[class_type] = rerank_size_similarity(di', q, class_labels[class_type])* **end** **end** **end** *Return D' by sorting based on total similarity scores* **Algorithm 1:** Re-ranking algorithm
Robust Explanations for Visual Question Answering	VAQ + XAI	
Visual Question and Answering Dataset		