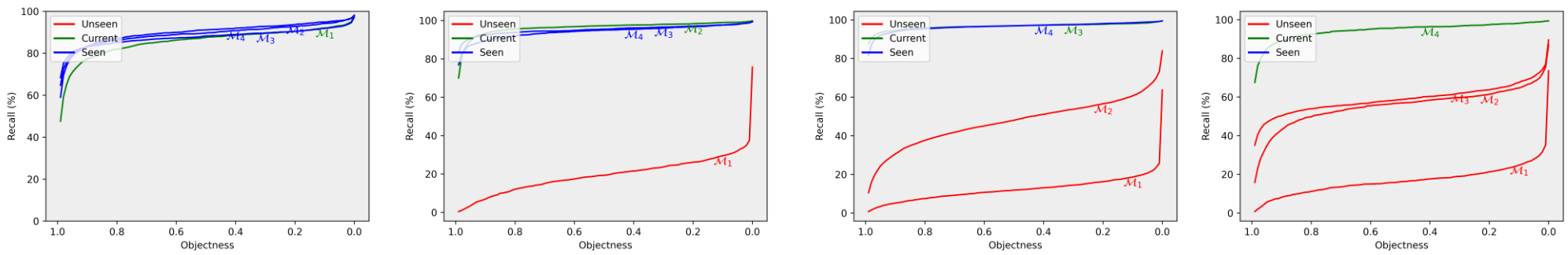
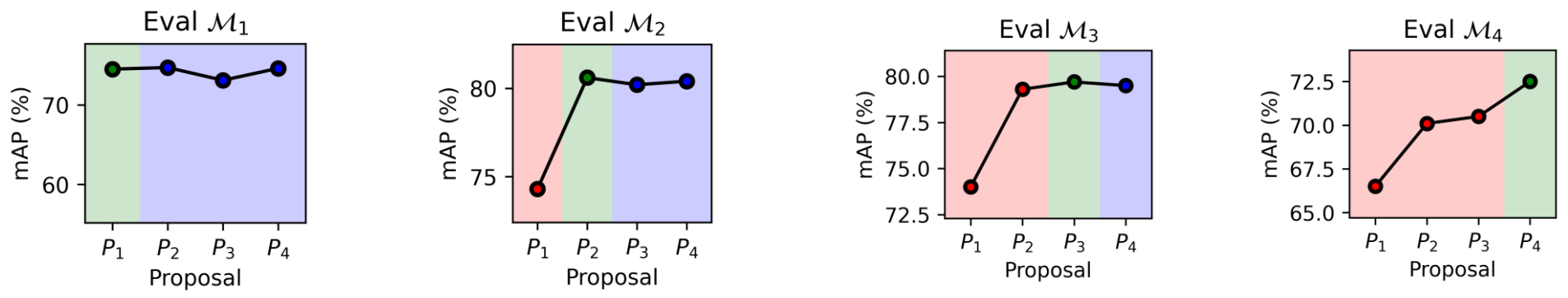
Anatomy of Cascade RCNN.



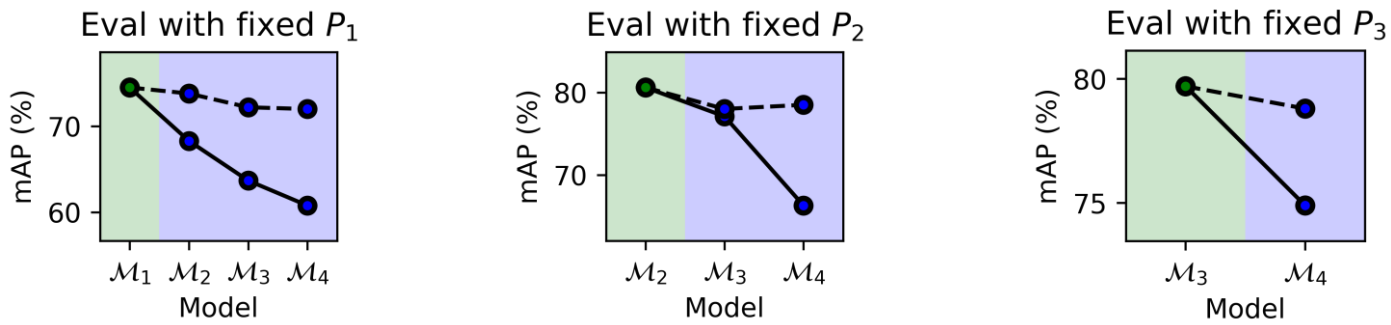
(a) RPN's Recall on $\mathcal{D}_1^{test}$ (b) RPN's Recall on $\mathcal{D}_2^{test}$ (c) RPN's Recall on $\mathcal{D}_3^{test}$ (d) RPN's Recall on $\mathcal{D}_4^{test}$

Figure 11: Cascade RCNN's Recall-Objectness curve of RPN's prediction on VOC dataset. IoU threshold is set to 0.5. Blue: $\mathcal{M}_j$has been trained with training images of $\mathcal{D}_i$ in earlier stages. Green: $\mathcal{M}_j$ is just fine-tuned on $\mathcal{D}_i$. Red: $\mathcal{M}_j$ has not seen the training set of $\mathcal{D}_i$ before.



(a) On $\mathcal{D}_1^{test}$ (b) On $\mathcal{D}_2^{test}$ (c) On $\mathcal{D}_3^{test}$ (d) On $\mathcal{D}_4^{test}$

Figure 12:Cascade RCNN's results of $\mathcal{M}_i$ on $\mathcal{D}_i$ with different proposals on VOC dataset. $\mathbf{P}_j$ are produced by corresponding $\mathcal{M}_j$.



(a) On $\mathcal{D}_1^{test}$ (b) On $\mathcal{D}_2^{test}$ (c) On $\mathcal{D}_3^{test}$

Figure 13: Cascade RCNN's results of $\mathcal{M}_i$ on various $\mathcal{D}_i$ by using a fixed set of proposals on VOC dataset."--"indicates the classification results of each proposal is designated by Model freshly trained on the corresponding $\mathcal{D}$. "—" indicates the predicted classification results for the corresponding model in the x-axis.