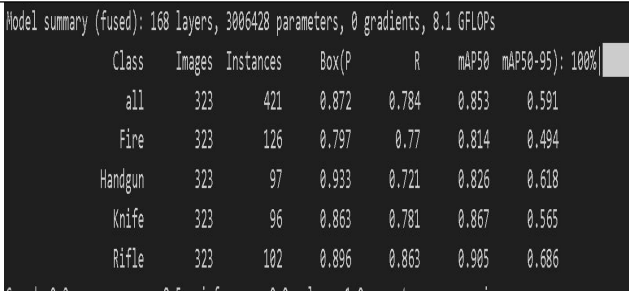
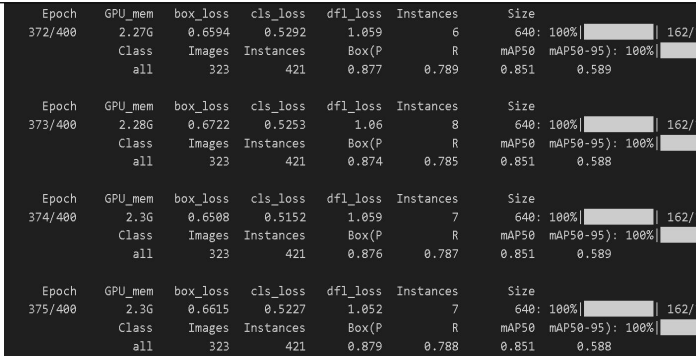



Project Development Phase Model Performance Test

| | |
|---------------|---|
| Date | 20 November 2023 |
| Team ID | 592086 |
| Project Name | Arming against Violence YOLO based Weapon Detection |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No | Parameter | Values | Screenshot |
|------|---------------------------------------|--|--|
| 1. | Model Summary | 168 layers, 3006428 parameters |  <pre> Model summary (fused): 168 layers, 3006428 parameters, 0 gradients, 8.1 GFLOPs Class Images Instances Box(P) R mAP50 mAP50-95): 100% all 323 421 0.872 0.784 0.853 0.591 Fire 323 126 0.797 0.77 0.814 0.494 Handgun 323 97 0.933 0.721 0.826 0.618 Knife 323 96 0.863 0.781 0.867 0.565 Rifle 323 102 0.896 0.863 0.905 0.686 </pre> |
| 1. | Accuracy | Training Accuracy - 97% Validation Accuracy - 91% |  <pre> Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size 372/400 2.27G 0.6594 0.5292 1.059 6 640: 100% 162/1 Class Images Instances Box(P) R mAP50 mAP50-95): 100% all 323 421 0.877 0.789 0.851 0.589 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size 373/400 2.28G 0.6722 0.5253 1.06 8 640: 100% 162/1 Class Images Instances Box(P) R mAP50 mAP50-95): 100% all 323 421 0.874 0.785 0.851 0.588 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size 374/400 2.3G 0.6508 0.5152 1.059 7 640: 100% 162/1 Class Images Instances Box(P) R mAP50 mAP50-95): 100% all 323 421 0.876 0.787 0.851 0.589 Epoch GPU_mem box_loss cls_loss dfl_loss Instances Size 375/400 2.3G 0.6615 0.5227 1.052 7 640: 100% 162/1 Class Images Instances Box(P) R mAP50 mAP50-95): 100% all 323 421 0.879 0.788 0.851 0.588 </pre> |
| 3. | Confidence Score (Only Yolo Projects) | Class Detected - Handgun, Knife Confidence Score - 0.79, 0.91 |  |

