**TF\_FP format**

**Dataset 1**

**Intel**

# Pv\_vs\_wt, Dataset-1\_tffp

**Precision Vs Weight**

Weight: 64,128,192,256,320(for tf\_fp format)

Threshold:0.5,0.55,0.6,0.65,0.7,0.75,0.8,0.85,0.9,0.95

Precision value: in range from 0.5 to 1

Image size: 64

**For threshold 0.5 and 0.55**

1. Precision value is lowest for 192
2. Precision value is highest for 320
3. Precision value for weight 64 and 128 is almost similar
4. Precision value for weight 256 lies in between the precision value of weights 128 and 192

**For threshold 0.6 and 0.65**

1. Precision value is lowest for 192
2. Precision value is highest for 320
3. For both the threshold, precision value for weight 64 is surpassing the precision value for weight 128
4. Precision value for weight 192 at 0.6 threshold is almost between 0.8 and 0.9 but for threshold 0.65, it is almost approaching 0.9. So the graph is shifting upward along y-axis.
5. For 0.6 threshold, the precision values for weight 192 is less than the precision value of weight 256 but for 0.65 threshold, precision value for weights 192 and 256 is almost similar

**For threshold 0.7 and 0.75**

1. Graph is shift upward along y-axis drastically for 0.75 threshold
2. For both 0.7 and 0.75, precision value is lowest for 192
3. Precision value for weight 256 is surpassing the precision value for weight 192
4. For 0.7 threshold, precision value is highest for weight 320
5. For 0.75 threshold, precision value for weights 64 and 320 are highest and similar
6. For 0.75 threshold, precision values are approaching 1

**For threshold 0.8 and 0.85**

1. For 0.8 threshold, precision value for weight 320 is surpassing the precision value for weight 64
2. Precision value for weight 256 for 0.85 threshold is surpassing the precision value 0.8 threshold at 256
3. For 0.8 threshold, precision value is highest for 320 and slightly less than 1
4. For 0.85 threshold, precision value is highest for 320 and it is 1 which is indicating overtraining of dataset.
5. For 0.8 threshold, precision values for weights 128,192 are almost similar
6. For 0.85 threshold, precision value for weight 256 is surpassing precision values for weight 128 and 192.

**For threshold 0.9 and 0.95**

1. For 0.9 threshold, precision value is lowest for 128
2. Precision value of weight 192 is surpassing the precision value for weight 128
3. For 0.9 threshold, precision values for all weights precision value reached 1 except for weight 128
4. For 0.95 threshold, graph is completely shifted upward along y-axis to reach precision value 1 for all weights

**Overall Conclusion:**

1. From 0.5 to 0.75 threshold, precision value is lowest for weight 192 so it will give bad results at thresholds from 0.5 to 0.75 for weight 192.
2. At 0.65 threshold 256 is in close competition with 192 so 256 will also give bad result at 0.65 threshold w.r.t weight 192 for image size 64
3. From 0.8 to 0.95 threshold precision value is lowest for weight 128. So it will give bad results for weight 128 between 0.8 and 0.95 thresholds
4. At 0.8 threshold, 192 is in close competition with 192, so at 0.8 threshold bad results will be generated for weight 192 for image size 64
5. For all the thresholds, precision value is highest for weight 320.
6. Best results will be generated at weight 320 for all thresholds
7. For threshold 0.75, 64 is in close competition with 320 so at 0.75 threshold, good results will be generated w.r.to weight 64
8. For threshold 0.9, weight 256 and 320 are in close competition with 320 so it will also produce good results.

Image size: 128

**For threshold 0.5 and 0.55**

1. For 0.5 threshold, precision value is lowest for weight 64 and lies in between 0.7 and 0.8
2. For 0.55 threshold, precision value is lowest for weight 64 and lies closer to 0.8
3. For both 0.5 and 0.55 threshold, precision value is highest for weight 192 and lies at the middle of 0.9 and 1
4. At 0.5 threshold, precision value for weight 256 is slightly higher than the precision value for weight 128 but for 0.55 threshold, precision value for weights 256 and 128 are almost at same level.

**For threshold 0.6 and 0.65**

1. For 0.6 threshold, precision value is lowest for weights 64 and 320 but for 0.64 threshold, precision value for weight 320 is lowest which means precision value for weight 64 is surpassing the precision value of weight 320
2. Precision value is highest for weight 192 for both the thresholds and is closer to 1 which means graph is shifting upward along y-axis
3. Precision value for weights 128 and 256 are nearly same for 0.6 threshold but for 0.65 threshold precision value for 128 threshold is surpassing the precision value of weight 256

**For threshold 0.7 and 0.75**

1. For both the threshold, precision value is highest for weight 192 but for precision 0.75 threshold, precision value is closer to approach 1 value which is indicating the upward shift of the graph along y-axis.
2. Precision value is lowest for weight 320 for the thresholds
3. For threshold 0.7, precision value for weight 64 is less than the precision value for weight 128 but for threshold 0.75, precision value for weight 64 is almost closer to precision value for weight 128

**For threshold 0.8 and 0.85**

1. Precision value is highest for weight 192 for both threshold
2. Precision value is lowest for weight 320 for both threshold
3. Precision values for weight 64 and 128 is slightly greater than 0.9 for 0.8 threshold
4. Precision values for weights 64 and 128 is between 0.9 and 1
5. Lowest precision value for both threshold is 0.9

**For threshold 0.9 and 0.95**

1. For 0.9 threshold precision value is lowest for weight 128
2. For 0.9 threshold, precision value for weight 64 is surpassing the precision value for weight 128
3. Precision values for all the weights for 0.9 threshold lies in between 0.9 and 1 which is indication upward shift of graph.
4. For 0.9 threshold, precision value for weight 320 is surpassing the precision value for weight 128
5. For 0.95 threshold, precision value for weight 256 is lowest and surpassed by the precision value for weight 320
6. For 0.95 threshold, precision value of all the weights except 256 is approaching 1

**Overall Conclusion:**

1. For threshold 0.5 and 0.55, precision value is lowest for weight 64. So bad results will be generated at this two thresholds w.r.t weight 64 and image size 128
2. From threshold 0.6 to 0.85, precision value is lowest for weight 320. So bad results will be generated from thresholds 0.6 to 0.85 w.r.t to weight 320 for image size 128
3. At 0.6 threshold, 64 is in close competition with 320, so bad results will be generated for both weights
4. At 0.9 threshold, the precision value for all weights except 128 reached 1
5. At 0.95 threshold, precision value is lowest for weight 256 so bad results will be generated w.r.t weight 256 for image size 128.
6. Precision value is highest for all thresholds at weight 192 and at threshold 0.9 precision value is highest at weights 192 and 64, at 0.95 threshold all points become collinear. So good results are expected to generated at weight 192 for all thresholds for image size 128

Image size: 192

**For threshold 0.5 and 0.55**

1. Precision value is lowest for weight 64
2. For 0.5 threshold precision value is highest for weight 192 and for 0.55 threshold, precision value is highest for weight 192 and 320
3. For 0.55 threshold graph is shifted upward along y-axis

**For threshold 0.6 and 0.65**

1. Precision value is highest for weight 192 for both threshold
2. For 0.6 threshold, precision value is lowest for weight 64
3. For 0.65 threshold, precision value for weight 64 is surpassing the precision value for weight 128

**For threshold 0.7 and 0.75**

1. Precision value is lowest for weight 128
2. For 0.7 threshold, precision value is highest for weight 192
3. For 0.75 threshold, precision value is highest for weight 192 and the precision value for weight 64 is coming closer to the precision value of weight 192

**For threshold 0.8 and 0.85**

1. Precision value is highest for weight 192 for both the threshold
2. For 0.8 threshold, precision value is highest for weight 64 and 192
3. For 0.85 threshold, precision value for weight 64 is surpassing the precision value for weight 192 and it is reaching 1 value
4. Graph is shifting upward along y-axis for 0.85 threshold

**For threshold 0.9 and 0.95**

1. Precision value is lowest for weight 128 for both the threshold
2. For 0.9 threshold, highest value of precision is 1 at weight 64 and 192
3. For 0.9 threshold the graph is tending to approach 1
4. For 0.95 threshold, precision value for all the weights except 128 reached 1

**Overall Conclusion:**

1. Form threshold 0.5 to 0.6, precision value is lowest for weight 64
2. Form threshold 0.6 to 0.95, precision value is lowest for weight 128
3. So for threshold 0.5 to 0.6, bad results will be generated for weight 64 for image size 192 and for thresholds 0.6 to 0.95, bad results will be generated for weight 128 for image size 192
4. At thresholds 0.5 to 0.75, precision value is highest for weight 192. From thresholds 0.8 to 0.9 precision value is highest for weight 64.
5. At 0.65, 0.7 threshold, 320 is in close competition with 192
6. At 0.75,0.8 and 0.9 threshold, 64 is in close competition with 192
7. At 0.85 threshold, precision value is highest for weight 64 so good results will be generated for weight 64 for image size 192 for 0.85 threshold
8. At 0.95 threshold, the graph is straight horizontal line i.e. all weights corresponding to precision value 1

Image size: 256

**For threshold 0.5 and 0.55**

1. Precision value is lowest for weight 64 and highest for weight 320
2. For 0.5 threshold, Lowest value of precision for weight 64 is between 0.7 and 0.8
3. For 0.55 threshold, lowest value of precision for weight 64 is closer to 0.8

**For threshold 0.6 and 0.65**

1. For 0.6 threshold, precision value is lowest i.e., around 0.8 for weight 64 and highest for weight 320 closer to 1
2. For 0.65 threshold, precision value is lowest for weight 64 and slightly higher than 0.8 and precision value is highest for weight 320 and it is approaching 1
3. Precision value for weights 192 and 256 are almost same

**For threshold 0.7 and 0.75**

1. For 0.7 threshold, precision value is lowest for weight 64 and highest for weight 320
2. For 0.75 threshold, precision value is lowest for weight 64 and 128 and closer to 0.9
3. Precision value is highest for weight 320 for 0.75 threshold

**For threshold 0.8 and 0.85**

1. There is drastic change in the characteristics of graph.
2. For 0.8 threshold, Precision values for weight 64, 128 and 256 increases and the precision value of weight 256 Is surpassing the precision value of weight 192
3. For 0.85 threshold, the precision value for weight 64 is surpassing the precision value of weight 192
4. Highest value of precision is still at weight 320 and it is 1

**For threshold 0.9 and 0.95**

1. For 0.9 threshold, precision value is lowest for weight 128
2. For 0.9 threshold, precision value for weights 192 and 256 is almost same
3. For 0.9 threshold, precision value is highest for weight 320
4. For 0.95 threshold, precision value for all weights reached 1

**Overall Conclusion:**

1. From threshold 0.5 to 0.8, precision value is lowest for weight 64
2. For threshold 0.85 and 0.9, precision value is lowest for weight 128
3. For 0.75 threshold, 128 is in competition with 64
4. So for thresholds 0.5 to 0.8, bad results will be generated w.r.t weight 64 for image size 256 and for thresholds 0.85 and 0.9, bad results will be generated w.r.t weight 128 for image size 256
5. At 0.95 threshold, precision value for all the weights reached 1 and graph is a horizontal straight line
6. For all thresholds, precision value is highest at weight 320 so best results will be generated for weight 320

Image size: 320

**For threshold 0.5 and 0.55**

1. Precision value is lowest for weight 64 for both the thresholds
2. Precision value is highest for weight 320 for both the thresholds
3. Very small difference is there between the precision values for weights 64 and 128 for both the thresholds.

**For threshold 0.6 and 0.65**

1. For both the thresholds, the precision value for weights 64 and 128 is exactly equal and lowest
2. Precision value is highest for weight 320 for both the thresholds
3. Lowest precision value for threshold 0.6 is closer to 0.8 and for threshold 0.65 it is slightly higher than 0.8. it is indicating the upward shift of graph

**For threshold 0.7 and 0.75**

1. Precision value is lowest for weight 128
2. Precision value for weight 64 is surpassing the precision value for weight 128 for both thresholds
3. Precision value is highest for weights 320

**For threshold 0.8 and 0.85**

1. For 0.8 threshold, precision value is lowest for weight 128 closet to 0.9
2. Precision value is highest for both the threshold at weight 320
3. At 0.85 threshold, precision value for weight 128 surpasses the precision value for weight 64
4. For threshold 0.85, precision value for all the weights lies between 0.9 and 1 and it is indicating the upward shift of graph along y-axis

**For threshold 0.9 and 0.95**

1. Precision value for weight 64 at 0.9 threshold is surpassing the precision value for all weights
2. Precision value for weights 64,128 and 192 is surpassing the precision value for weight 256 at 0.9 threshold
3. Precision value is not lowest for weight 256 at 0.9 threshold
4. For 0.95 threshold, precision value is lowest for weight 64 and the precision value for rest of the weights is reached 1
5. This is indicating the complete shift of graph along y-axis

**Overall Conclusion**:

1. For threshold 0.5 to 0.65, precision value is lowest for weight 64, so for image size 320 from threshold 0.5 to 0.65 at weight 64, bad results will be generated
2. For threshold 0.7 to 0.8, precision value is lowest for weight 128, so for image size 320 from threshold 0.5 to 0.65 at weight 128, bad results will be generated
3. For threshold 0.6 and 0.65, precision value for weight 128 is in close competition with precision value for weight 64, so bad results will be generated for both weights
4. At threshold 0.9 and 0.95, graph is a horizontal straight line i.e. precision value 1 for all weights
5. For all thresholds, precision value is highest at weight 320 so best results will be generated for weight 320

**Final Conclusion:**

1. In general, overall performance of weight of 64 is weakest.
2. In general, overall performance of weight of 320 is best.
3. For image size 128 and 192 the overall best performance is at weight of 192.

# F1v\_vs\_wt, Dataset\_1

**F1 value vs Weight**

Weights: 64, 128, 192, 256, 320 (for TF-FP File Format)

Threshold: 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95

F1 Value: Between 0.8 to 1.

**Image Size: 64**

For threshold 0.5 and 0.55

1. The F1 value is lowest for weight of 192.
2. The F1 value is highest for weight of 320.
3. The F1 values for weights of 64 and 128 are nearly equal.
4. The F1 value for weight of 256 lies between the F1 value of weight of 192 and 64.

For threshold 0.6 and 0.65

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. The F1 value is lowest for weight of 192.
3. The F1 values of weights of 192 and 256 are almost equal.
4. The F1 value is highest for weight of 320.
5. The F1 value for weight of 128 lies between the F1 value for weight of 64 and 192.
6. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.7 and 0.75

1. As threshold value is increasing, F1 values for all the weights are also increasing.
2. The F1 value is lowest for weight of 192.
3. The F1 value is highest for weight of 320.
4. When the threshold is 0.75, the F1 value at weights 64 and 320 are nearly equal.
5. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

For threshold of 0.8 and 0.85

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. The F1 value is lowest for weight of 128.
3. The F1 value is highest for weight of 320 and it reaches to 1.
4. All the F1 values for all the weights lie above 0.9.
5. The F1 value of weight of 192 surpasses the F1 value of weight of 128.
6. As threshold value is increasing, graph is shifting upwards.

For threshold of 0.9 and 0.95

1. All the F1 values for all the weights lie above 0.95.
2. As threshold value is increasing, graph is shifting upwards.
3. All the F1 values are reaching to 1.
4. The F1 value is lowest for weight of 128.
5. For threshold of 0.95, all the F1 values are equal to 1 for all the weights.

**Overall Conclusion**:

1. In general, performance of weights of 192 is the weakest.
2. In general, performance of weight of 320 is best.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Image Size: 128**

For threshold 0.5 and 0.55

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 192.
3. The F1 value of the weights of 128 and 256 are almost equal.
4. The F1 value of the weight of 320 lies between the F1 value of weights 64 and 128.
5. The F1 values increases till the weight of 192 and then decreases to the weight of 320.

For threshold 0.6 and 0.65

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. When the threshold is 0.6, the F1 value is lowest for weight of 64.
3. When the threshold is 0.65, the F1 value is lowest for weight of 64.
4. The F1 value is highest for weight of 192.
5. The F1 values of weights of 64 and 320 are almost equal while the F1 values of weights of 128 and 256 are almost equal.
6. The F1 values increases till the weight of 192 and then decreases to the weight of 320.

For threshold of 0.7 and 0.75

1. All the F1 values for all the weights lie above 0.9.
2. The F1 value is lowest for the weight of 320.
3. The F1 value is highest for the weight of 192.
4. The F1 value of weight of 64 surpasses the F1 value of weight of 320.
5. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.8 to 0.85

1. The F1 value is lowest for the weight of 320.
2. The F1 value is highest for the weight of 192.
3. The F1 values increases till the weight of 192 and then decreases to the weight of 320.
4. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.9 to 0.95

1. All the F1 values for all the weights lie above 0.95.
2. As threshold value is increasing, graph is shifting upwards.
3. All the F1 values are reaching to 1.
4. The F1 value is lowest for weight of 128.
5. For threshold of 0.95, all the F1 values are equal to 1 for all the weights.

**Overall conclusion**

1. In general, performance of weights of 64 and 320 is weakest.
2. In general, performance of weight of 192 is best.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Image Size: 192**

For threshold 0.5 and 0.55

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 192.
3. The F1 value of the weights of 192 and 320 are almost equal.
4. The F1 value of the weight of 320 lies between the F1 value of weights 64 and 128.
5. The F1 values increases till the weight of 192 and then remain constant to the weight of 320.

For threshold 0.6 and 0.65

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. All the F1 values for all the weights lie above 0.9.
3. The F1 value is lowest for weight of 64.
4. The F1 value is highest for weight of 192.
5. The F1 values of weights of 64 and 128 are almost equal while the F1 values of weights of 256 and 320 are almost equal.

For threshold of 0.7 and 0.75

1. All the F1 values for all the weights lie above 0.9.
2. The F1 value is lowest for the weight of 128.
3. The F1 value is highest for the weight of 192.
4. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.
5. The F1 value of weight of 64 surpasses the F1 value of weight of 320.
6. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.8 to 0.85

1. All the F1 values for all the weights lie above 0.95.
2. The F1 value is lowest for the weight of 128.
3. The F1 value is highest for the weight of 192.
4. For the threshold of 0.85, the F1 value of the weight of 64 almost reaches 1.
5. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.9 to 0.95

1. All the F1 values for all the weights lie above 0.97.
2. As threshold value is increasing, graph is shifting upwards.
3. All the F1 values are reaching to 1.
4. The F1 value is lowest for weight of 128.
5. For threshold of 0.95, all the F1 values are equal to 1 for all the weights.

**Overall conclusion**:

1. In general, performance of weights of 64 and 128 is weakest.
2. In general, performance of weight of 192 is best.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Image Size: 256**

For threshold 0.5 and 0.55

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 320.
3. The nature of the graph is increasing or non-decreasing.
4. The F1 value of the weight of 128 lies between the F1 value of weights 64 and 192.
5. The F1 values of weights of 192 and 256 are almost equal.

For threshold 0.6 and 0.65

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. The nature of the graph is non-decreasing.
3. The F1 value is lowest for weight of 64.
4. The F1 value is highest for weight of 320.
5. The F1 values of weights of 192 and 256 are almost equal.

For threshold of 0.7 and 0.75

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 320.
3. The F1 value for the weight of 320 is almost equal to 1.
4. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.8 to 0.85

1. All the F1 values for all the weights lie above 0.9.
2. The F1 value is highest for the weight of 320.
3. The F1 value of the weight of 320 almost reaches 1.
4. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.
5. The F1 value of weight of 64 surpasses the F1 value of weight of 128.
6. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.9 to 0.95

1. All the F1 values for all the weights lie above 0.97.
2. As threshold value is increasing, graph is shifting upwards.
3. All the F1 values are reaching to 1.
4. The F1 value is lowest for weight of 128.
5. For threshold of 0.95, all the F1 values are equal to 1 for all the weights.

**Overall conclusion**:

1. In general, performance of weights of 64 and 128 is weakest.
2. In general, performance of weight of 320 is best.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Image Size: 320**

For threshold 0.5 and 0.55

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 320.
3. The F1 value of weight 320 is almost equal to 1.
4. The nature of the graph is increasing.
5. All the F1 values for all the weights lie above 0.8 except for the weight of 64.
6. The F1 value of the weight of 128 lies between the F1 value of weights of 64 and 192.

For threshold 0.6 and 0.65

1. As threshold value is increasing, F1 value for all the weights are also increasing.
2. All the F1 values for all the weights lie above 0.8.
3. The nature of the graph is increasing.
4. The F1 value is lowest for weight of 64.
5. The F1 value is highest for weight of 320.

For threshold of 0.7 and 0.75

1. The F1 value is lowest for the weight of 64.
2. The F1 value is highest for the weight of 320.
3. All the F1 values for all the weights lie above 0.85.
4. The F1 value for the weight of 320 is almost equal to 1.
5. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.8 to 0.85

1. All the F1 values for all the weights lie above 0.9.
2. The F1 value is lowest for the weight of 64.
3. The F1 value is highest for the weight of 320.
4. The F1 value of the weight of 320 almost reaches 1.
5. As the threshold is changing from 0.8 to 0.85, the nature of the graph changes drastically.
6. As F1 value for all the weights are increasing it means that the graph is shifting upwards.

For threshold of 0.9 to 0.95

1. All the F1 values for all the weights lie above 0.98.
2. As threshold value is increasing, graph is shifting upwards.
3. All the F1 values are reaching to 1.
4. The F1 value is lowest for weight of 256.
5. For threshold of 0.95, all the F1 values are equal to 1 for all the weights.

**Overall conclusion**:

1. In general, performance of weight of 64 is weakest.
2. In general, performance of weight of 320 is best.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Final Conclusion:**

1. In general, at higher value of threshold, performance of weight of 128 is weakest.
2. In general, performance of weight of 320 is best. But the performance of weight of 192 is highest for the image size of 128.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**RPI**

**Precision value vs Weight (Rpi tf-fp)**

Weights: 64, 128, 192, 256 ,320

Threshold: 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95

**Image Size =64**

For threshold: 0.5 to 0.55

1. Precision value is lowest at weight 192.
2. Precision value is highest for weight 320.
3. Precision value at weight 64 and 128 are comparable to each other at both thresholds.
4. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1. Precision value is lowest at weight 192.
2. Precision value is highest for weight 320.
3. Precision value at weight 192 and 256 are comparable to each other at 0.65 threshold .
4. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1. Precision value is lowest at weight 192.
2. Precision value is highest for weight 320 for threshold 0.7.
3. Precision value is highest for weight 64 and weight 320 for threshold 0.75.
4. Precision value at weight 64 and 320 are comparable to each other at 0.75 threshold .
5. Precision value at weight 128 and 256 are comparable to each other at 0.75 threshold .
6. Precision value for all weights is above 0.9 at 0.75 threshold .
7. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1. Precision value is highest at weight 320.
2. Precision value is lowest for weight 192 for threshold 0.8.
3. Precision value is lowest for weight 128 for threshold 0.85.
4. Precision value at weight 128,192 and 256 are comparable to each other at 0.8threshold .
5. Precision value at weight 128 and 192 are comparable to each other at 0.85 threshold .
6. Precision value at weight 64 and 256 are comparable to each other at 0.85 threshold .
7. Precision value of weight 256 surpasses precision value at weight 192.
8. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1. Precision value is lowest at weight 128.
2. Precision value is highest for weight 64,256 and 320 ,which is equal to 1 for threshold 0.9.
3. Precision value is same for all weights 64,128,192,256 and 320 ,which is equal to 1 for threshold 0.75.
4. Precision value of weight 128 catches upto 1 at threshold 0.95.
5. The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.8,minimum value of precision value occurs at weight 192 but at 0.85 it gets surpassed and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 192.
4. The F1 vaue overall remains highest for weight of 320.

**Image Size =128**

For threshold: 0.5 to 0.55

1. Precision value is lowest at weight 64.
2. Precision value is highest at weight 192.
3. Precision value at weight 128 and 256 are comparable to each other at 0.55 threshold .
4. Precision value for all weights is above 0.7 at 0.55 threshold .
5. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

* + - 1. Precision value is highest at weight 192.
      2. Precision value is lowest for weight 64 for threshold 0.6.
      3. Precision value is lowest for weight 320 for threshold 0.65.
      4. Precision value at weight 128 and 256 are comparable to each other at 0.6 threshold .

1. Precision value of weight 64 surpasses precision value at weight 320 at threshold 0.65
2. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1. Precision value is lowest at weight 320.

2. Precision value is highest at weight 192.

3. Precision value at weight 128 and 256 are comparable to each other at 0.7 threshold .

5. Precision value at weight 64,128 and 256 are comparable to each other at 0.75 threshold .

6. Precision value of weight 64 catches upto precision value at weight 128 and weight 256.

7. Precision value for all weights is above 0.8 at both thresholds .

8.The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold 0.8 and 0.85

* 1. Precision value is lowest at weight 320.
  2. Precision value is highest at weight 192.
  3. Precision value at weight 64 and 128 are comparable to each other at both thresholds..
  4. Precision value for all weights is above 0.9 at 0.85 threshold .
  5. The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

* 1. Precision value is lowest at weight 128 at threshold 0.9.
  2. Precision value is highest for weight 64 and 192 for threshold 0.9.
  3. Precision value is lowest at weight 256 at threshold 0.95.
  4. Precision value is same for weights 64,128,192 and 320 ,which is equal to 1 for threshold 0.95.
  5. Precision value of weight 128 surpasses precision value at weight 256 at threshold 0.95
  6. The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.6,minimum value of precision value occurs at weight 64 but at 0.65 it gets surpassed and precision value becomes minimum at weight 320.
3. The F1 value overall remains lowest for weight of 64 and 320
4. The F1 value overall remains highest for weight of 192.

**Image Size =192**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 192.

3) Precision value at weight 192 and 320 are comparable to each other at both thresholds.

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1)Precision value is lowest at weight 64 for threshold 0.6.

2)Precision value is lowest at weight 128 for threshold 0.65.

3) Precision value is highest at weight 192.

4) Precision value at weight 256 and 320 are comparable to each other at 0.6 threshold .

5) Precision value at weight 64 and 128 are comparable to each other at 0.65 threshold .

6) Precision value at weight 256 and 320 are comparable to each other at 0.65 threshold .

7) Precision value at weight 64 surpasses precision value at weight 128 at 0.65 threshold .

8)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 128.

2) Precision value is highest at weight 192.

3) Precision value at weight 192 and 320 are comparable to each other at 0.7 threshold .

4) Precision value at weight 64 and 256 are comparable to each other at 0.7 threshold .

5) Precision value at weight 64 and 192 are comparable to each other at 0.75 threshold .

6) Precision value at weight 256 and 320 are comparable to each other at 0.75 threshold .

7)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1)Precision value is highest at weight 64 for threshold 0.85.

2)Precision value is highest at weight 64 and weight 192 for threshold 0.8.

3) Precision value is lowest at weight 128.

4) Precision value at weight 256 and 320 are comparable to each other at 0.6 threshold .

5) The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128 at threshold 0.9.

2) Precision value is highest for weight 64 and 192 for threshold 0.9.

3)Precision value is highest for weights 64,192 ,256 and 320 ,which is equal to 1 for threshold 0.95.

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.65 ,minimum value of precision value occurs at weight 64 but at 0.7 it gets surpasses 128 and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 128 and 64 .
4. The F1 value overall remains highest for weight of 192.

**Image Size =256**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value for all weights is above 0.7 at both thresholds .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value for all weights is above 0.8 at both thresholds .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

p1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value at weight 64 and 128 are comparable to each other at 0.75 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1)Precision value is lowest at weight 64 for threshold 0.8.

2)Precision value is lowest at weight 128 for threshold 0.85.

3) Precision value is highest at weight 320.

4) Precision value at weight 64 and 128 are comparable to each other at 0.8 threshold .

5)Precision value at weight 64 and 192 are comparable to each other at 0.85 threshold .

6) Precision value at weight 64 surpasses precision value at weight 128 at 0.85 threshold .

7)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128 at threshold 0.9.

2) Precision value is highest for weight 320 for threshold 0.9.

3)Precision value is highest for all weights 64,128,192 ,256 and 320 ,which is equal to 1 for threshold 0.95.

4)Precision value at weight 64 and 192 and 256 are comparable to each other at 0.9 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.8 ,minimum value of precision value occurs at weight 64 but at 0.85 it surpasses 128 and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 64.
4. The F1 value overall remains highest for weight of 320.

**Image Size =320**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 64 and 128 are comparable to each other at both thresholds .

4) Precision value at weight 192 and 256 are comparable to each other at 0.55 threshold .

5)Precision value for all weights is above 0.7 at both thresholds .

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is lowest at weight 64 and 128 for both thresholds.

2) Precision value is highest at weight 320.

3) Precision value for all weights is above 0.8 at 0.65 threshold .

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 128.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value at weight 64 and 128 are comparable to each other at 0.7 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1) Precision value is lowest at weight 128 at threshold 0.8.

2)Precision value is lowest at weight 64 at threshold 0.85.

3) Precision value is highest at weight 320.

4) Precision value at weight 192 and 256 are comparable to each other at 0.8 threshold .

5)Precision value at weight 64 and 128 are comparable to each other at 0.8 threshold .

6)Precision value for all weights is above 0.9 at 0.85 threshold .

7)Precision value at weight 192 and 256 are comparable to each other at 0.85 threshold .

8)Precision value for weight 128 surpases precision value at weight 64

9)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 256 at threshold 0.9.

2)Precision value is lowest at weight 64 at threshold 0.95

3) Precision value is highest at weight 64 at threshold 0.9.

4)All weights have precison value 1,except weight 64.

5)Precision value of all weights surpass precision value of weight 64 at threshold 0.95.

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion:**

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.65 ,minimum value of precision value occurs at weight 64 but at 0.7 it gets surpassed and precision value becomes minimum at weight 128.
3. Till threshold 0.85 ,maxmum value of precision value occurs at weight 320 but at 0.9 it gets surpassed and precision value becomes maximum at weight 64.
4. The F1 value overall remains lowest for weight of 128.
5. The F1 value overall remains highest for weight of 320.

**Final Conclusion:**

1. In general, overall performance of weight of 64 is weakest.
2. In general,overall performance of weight of 320 is best.
3. For image size 128 and 192 the overall best performance is at weight of 192.

# rpi\_tffp\_f\_vs\_wt\_ds1

**F1 value Vs weight**

Weights: 64,128,192,256,320

Thresholds: 0.5,0.55,0.6,0.65,0.7,0.75,0.8,0.85,0.9,0.95

Image size:64

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 192 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. F1 value for weight 64 and 128 are almost same at closer to 0.9 for threshold 0.5
4. F1 value for weight 64 and 128 are almost same and greater than 0.9 for threshold 0.55 so it is indicating the upward shift of graph along y-axis

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 192 and 256 for both threshold
2. F1 value is highest for weight 320 for both threshold
3. At 0.6 threshold, precision value for weight 64 is surpassing the F1 value for weight 128

For threshold 0.7 and 0.75:

1. F1 value is lowest for weight 192 for both threshold
2. F1 value is highest for weight 320 for threshold 0.7
3. F1 value is highest for weight 64 and 320 for threshold for threshold 0.75
4. At 0.7 threshold, F1 value for weight 256 is surpassing the F1 value for weight 192
5. At 0.75 threshold, F1 value for weight 64 and 320, and F1 value for weight 128 and 256 are same
6. F1 values for all weights for both thresholds lies between 0.9 to 1 so the graph is shifting in upward direction along y-axis.

For threshold 0.8 and 0.85:

1. At threshold 0.8, F1 value for weight 128 and 192 is lowest at equal
2. At threshold 0.85, F1 value for weight 128 is lowest and F1 value for weight 192 is surpassing the F1 value for weight 128
3. F1 value for weight 320 is highest for both threshold
4. For 0.8 threshold, F1 value for weight 320 is tending to approach 1 and at threshold 0.85 F1 value is 1

For threshold 0.9 and 0.95:

1. At 0.9 threshold, all the weights except 128 have F1 value 1
2. For 0.95 threshold, all weights have F1 value 1

**Overall Conclusion**:

1. F1 value is lowest at weight 192 for thresholds ranging from 0.5 to 0.8 so bad results will be generated at weight 192 for image size 64 at thresholds 0.5 to 0.8
2. For threshold 0.6 and 0.65 F1 value for weight 256 is in close competition with F1 value for weight 192 so at weight 256 also bad results will be generated
3. For threshold 0.8, F1 value is lowest for weight 128 as well so bad results will be generated at weight 128 also
4. For thresholds 0.85 and 0.9, F1 value is lowest for weight 128 so bad results will be generated at weight 128
5. F1 value for thresholds ranging from 0.5 to 0.85 is highest at weight 320 so best results will be generated at weight 320 for image size 64
6. At 0.95 threshold, F1 value for all weights reached 1 and graph is a horizontal straight line

**F1 value Vs weight**

Weights: 64,128,192,256,320

Thresholds: 0.5,0.55,0.6,0.65,0.7,0.75,0.8,0.85,0.9,0.95

Image size:128

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 192 for both thresholds
3. F1 values for weights 128 and 256 are somewhat same

For threshold 0.6 and 0.65:

1. For 0.6 threshold, F1 value is lowest for weights 64 and 320
2. For 0.6 threshold, F1 value for weights 128 and 256 are same
3. For 0.65 threshold, F1 value for weight 64 is surpassing the F1 value for weight 320
4. F1 value is highest for weight 192 for both thresholds

threshold 0.7 and 0.75:

1. F1 value is lowest for weight 320 for both thresholds
2. F1 value is highest for weight 192 for both thresholds
3. For threshold 0.75, F1 value for weight 64 and 128 are almost similar

For threshold 0.8 and 0.85:

1. F1 value is lowest for weight 320 for both thresholds
2. F1 value is highest for weight 192 for both thresholds and closer to 1 it is indicating the upward shift of graph along y-axis

For threshold 0.9 and 0.95:

1. At 0.9 threshold, F1 value for weight 128 is lowest and F1 values for weights 64,192 and 256 are very closer to 1
2. F1 value for weight 320 is second lowest
3. At 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. For threshold 0.5 and 0.55, F1 value is lowest for weight 64 so bad results will be generated at weight 64 for both thresholds
2. For thresholds 0.6 to 0.85, F1 value is lowest for weight 320 so bad results will be generated at weight 320 for these thresholds
3. For threshold 0.6 and 0.65, 64 is in close competition with 320 so bad results will be generated at weight 64 also for image size 128 for these thresholds
4. At 0.9 threshold, F1 value is lowest for weight 128 so bad results will be generated at weight 128 for 0.9 threshold and rest of weights have F1 value 1
5. F1 value is highest at weight 192 for thresholds ranging from 0.5 to 0.85 so good results will be generated at weight 192 for image size 128 for these thresholds
6. F1 values for all weights reached 1 for threshold 0.95 and graph is a horizontal straight line

Image size:192

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weights 192 and 256 for both thresholds

For threshold 0.6 and 0.65:

1. For 0.6 threshold, F1 value is lowest for weight 64
2. For 0.65 threshold, F1 value is lowest for weights 64 and 128
3. F1 value highest for weights 192 and 256 for both thresholds

For threshold 0.7 and 0.75:

1. At 0.7 threshold, F1 value for weight 64 is surpassing the F1 value for weight 128
2. F1 value lowest for weight 128 for both thresholds
3. At 0.7 threshold, F1 value is highest for weights 192 and 256
4. At 0.75 threshold, F1 value for weights 64 and 192 are equal and highest
5. F1 value for weight 192 is surpassing the F1 value for weight 256
6. F1 value for weight 256 and 320 are equal

For threshold 0.8 and 0.85:

1. F1 value is lowest for weight 128 for both thresholds
2. For 0.8 threshold, F1 value is highest for weights 64 and 192
3. For 0.85 threshold, F1 value is highest for weight 64 and it is reached 1
4. F1 value for weight 320 is approaching 1
5. Graph is shifting upward along y-axis

For threshold 0.9 and 0.95:

1. For 0.9 threshold, F1 value is lowest for weight 128
2. For 0.9 threshold F1 value for weight 64 and 192 reached 1
3. For 0.9 threshold, F1 value for weight 256 and 192 are same and approaching 1
4. For 0.95 threshold, F1 value for all weights reached 1 and F1- value for weight 128 is slightly less than 1

**Overall conclusion:**

1. For thresholds 0.5 to 0.65, F1 value is lowest for weight 64 so bad results will be generated for weight 64
2. For threshold 0.7 to 0.9, F1 value is lowest for weight 128 so bad results will be generated for weight 128
3. For 0.65 threshold, F1 value for weight 128 is in close competition with F1-value for weight 64 so bad results will be generated for weight 128 as well for 0.65 threshold
4. For thresholds 0.5 to 0.7, F1 value is highest for weights 192 and 320 so good results will be generated for weight 192 and 320 for thresholds 0.5 to 0.7
5. For thresholds 0.75 to 0.9 except threshold 0.85, F1 value is highest for weight 64 and 192 so good results will be generated at weights 64 and 192
6. For threshold 0.85, F1 value for weight 64 is highest so good results will be generated at weight 64
7. For 0.95 threshold, Graph is a horizontal straight line i.e., F1 value 1

Image size:256

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. F1 value for weight 192 and 256 are similar for both weights
4. For 0.5 threshold lowest F1 value is 0.8 and 0.55 threshold lowest F1 value is greater than 0.8 so there is upward shift of graph

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. For 0.6 threshold, lowest F1 value is between 0.8 and 0.9 and for threshold 0.65 it is closer to 0.9
4. Highest F1 value for threshold 0.65 is approaching 1

For threshold 0.7 and 0.75:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value highest for weight 320 for both threshold and it is approaching 1
3. F1 value for weight 192 is surpassing the F1 value for weight 256

For threshold 0.8 and 0.85:

1. At 0.8 threshold, F1 value is lowest for weight 64
2. At 0.85 threshold, F1 value for weight 64 is surpassing the F1 value for weights 128 and 192
3. At 0.85 threshold, F1 value is lowest for weight 128
4. F1 value is highest for weight 320 for both thresholds and it is reached 1

For threshold 0.9 and 0.95:

1. For 0.9 threshold, F1 value is lowest for weight 128 rest of the weights are tending to reach 1 but F1 value for weight 320 has reached 1 so it is considered to be highest
2. For 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. For thresholds 0.5 to 0.8, F1 value is lowest for weight 64. So bad results will be generated for weight 64 for these thresholds for image size 256
2. For thresholds 0.85 and 0.9, F1 value is lowest for weight 128 so bad results will be generated at weight 128
3. For thresholds 0.5 to 0.9, F1 value is highest for weight 320 so good results will be generated for weight 320 at these thresholds for image size 256
4. At 0.95 threshold, graph is a horizontal straight line with F1 value 1

Image size:320

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is Highest for weight 320 for both thresholds and it is closer to 1

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. At 0.65 threshold, F1 value for weights 192 and 256 is similar

For threshold 0.7 and 0.75:

1. For 0.7 threshold, F1 value is lowest for weight 64
2. For 0.75 threshold, F1 value for weights 64 and 128 is lowest
3. F1 value for weight 320 is highest for both thresholds
4. F1 value for weights 192 and 256 is similar

For threshold 0.8 and 0.85:

1. For 0.8 Threshold, F1 value for weights 64 and 128 is lowest
2. For 0.85 threshold, F1 value for weight 64 is lowest
3. F1 value for weight 320 is highest for both thresholds
4. F1 value for weights 192 and 256 is similar

For threshold 0.9 and 0.95:

1. At 0.9 threshold, F1 value for weight 256 is tending to approach 1 and rest of the weights are reached 1
2. At 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. For thresholds ranging from 0.5 to 0.85, F1 value for weight 64 is lowest so bad results will be generated for weight 64 at these thresholds for image size 320
2. For threshold 0.75 and 0.8, F1 value for weight 128 is in close competition with F1 value for weight 64 so bad results will be generated for these thresholds for weight 128
3. At 0.9 threshold, bad results will be generated at weight 256 for image size 320
4. For thresholds 0.5 to 0.85, F1 value is highest for weight 320 so good results will be generated for weight 320 for thresholds 0.5 to 0.85 for image size 320
5. For threshold 0.9 all weights have F1 value 1 except for weight 256
6. For 0.95 threshold, graph is a horizontal straight line i.e., F1 value 1

**Final Conclusion:**

1. In general, at higher value of threshold, performance of weight of 128 is weakest.
2. In general, performance of weight of 320 is best. But the performance of weight of 192 is highest for the image size of 128.
3. As threshold value is increasing, F1 value for all the weights are also increasing but the F1 value of weight of 64 is increasing at faster rate as compared to others.

**Jetson**

**Precision value vs Weight (Jetson tf-fp)**

Image Size: 64

Weights: 64, 128, 192, 256 ,320

Threshold: 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95

**Image Size =64**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 192.

2) Precision value is highest for weight 320.

3) Precision value at weight 64 and 128 are comparable to each other at both thresholds.

4) The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is lowest at weight 192.

2) Precision value is highest for weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at 0.65 threshold .

4) The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 192.

2) Precision value is highest for weight 320 for threshold 0.7.

3) Precision value is highest for weight 64 and weight 320 for threshold 0.75.

4) Precision value at weight 64 and 320 are comparable to each other at 0.75 threshold .

5) Precision value at weight 128 and 256 are comparable to each other at 0.75 threshold .

6) Precision value for all weights is above 0.9 at 0.75 threshold .

7)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1) Precision value is highest at weight 320.

2) Precision value is lowest for weight 192 for threshold 0.8.

3) Precision value is lowest for weight 128 for threshold 0.85.

4) Precision value at weight 128,192 and 256 are comparable to each other at 0.8threshold .

5) Precision value at weight 128 and 192 are comparable to each other at 0.85 threshold .

6) Precision value at weight 64 and 256 are comparable to each other at 0.85 threshold .

7) Precision value of weight 256 surpasses precision value at weight 192.

8)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128.

2) Precision value is highest for weight 64,256 and 320 ,which is equal to 1 for threshold 0.9.

3) Precision value is same for all weights 64,128,192,256 and 320 ,which is equal to 1 for threshold 0.75.

4) Precision value of weight 128 catches upto 1 at threshold 0.95.

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.8,minimum value of precision value occurs at weight 192 but at 0.85 it gets surpassed and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 192.
4. The F1 value overall remains highest for weight of 320

**Image Size =128**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 192.

3) Precision value at weight 128 and 256 are comparable to each other at 0.55 threshold .

4) Precision value for all weights is above 0.7 at 0.55 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is highest at weight 192.

2) Precision value is lowest for weight 64 for threshold 0.6.

3) Precision value is lowest for weight 320 for threshold 0.65.

4) Precision value at weight 128 and 256 are comparable to each other at 0.6 threshold .

5)Precision value of weight 64 surpasses precision value at weight 320 at threshold 0.65

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 320.

2) Precision value is highest at weight 192.

4) Precision value at weight 128 and 256 are comparable to each other at 0.7 threshold .

5) Precision value at weight 64,128 and 256 are comparable to each other at 0.75 threshold .

6) Precision value of weight 64 catches upto precision value at weight 128 and weight 256.

7) Precision value for all weights is above 0.8 at both thresholds .

8)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold 0.8 and 0.85

1) Precision value is lowest at weight 320.

2) Precision value is highest at weight 192.

3) Precision value at weight 64 and 128 are comparable to each other at both thresholds..

4) Precision value for all weights is above 0.9 at 0.85 threshold .

5))The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128 at threshold 0.9.

2) Precision value is highest for weight 64 and 192 for threshold 0.9.

3)Precision value is lowest at weight 256 at threshold 0.95.

4)Precision value is same for weights 64,128,192 and 320 ,which is equal to 1 for threshold 0.95.

5)Precision value of weight 128 surpasses precision value at weight 256 at threshold 0.95

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.6,minimum value of precision value occurs at weight 64 but at 0.65 it gets surpassed and precision value becomes minimum at weight 320.
3. The F1 value overall remains lowest for weight of 64 and 320
4. The F1 value overall remains highest for weight of 192.

**Image Size =192**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 192.

3) Precision value at weight 192 and 320 are comparable to each other at both thresholds.

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1)Precision value is lowest at weight 64 for threshold 0.6.

2)Precision value is lowest at weight 128 for threshold 0.65.

3) Precision value is highest at weight 192.

4) Precision value at weight 256 and 320 are comparable to each other at 0.6 threshold .

5) Precision value at weight 64 and 128 are comparable to each other at 0.65 threshold .

6) Precision value at weight 256 and 320 are comparable to each other at 0.65 threshold .

7) Precision value at weight 64 surpasses precision value at weight 128 at 0.65 threshold .

8)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 128.

2) Precision value is highest at weight 192.

3) Precision value at weight 192 and 320 are comparable to each other at 0.7 threshold .

4) Precision value at weight 64 and 256 are comparable to each other at 0.7 threshold .

5) Precision value at weight 64 and 192 are comparable to each other at 0.75 threshold .

6) Precision value at weight 256 and 320 are comparable to each other at 0.75 threshold .

7)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1)Precision value is highest at weight 64 for threshold 0.85.

2)Precision value is highest at weight 64 and weight 192 for threshold 0.8.

3) Precision value is lowest at weight 128.

4) Precision value at weight 256 and 320 are comparable to each other at 0.6 threshold .

5) The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128 at threshold 0.9.

2) Precision value is highest for weight 64 and 192 for threshold 0.9.

3)Precision value is highest for weights 64,192 ,256 and 320 ,which is equal to 1 for threshold 0.95.

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.65 ,minimum value of precision value occurs at weight 64 but at 0.7 it gets surpasses 128 and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 128 and 64 .
4. The F1 value overall remains highest for weight of 192.

**Image Size =256**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value for all weights is above 0.7 at both thresholds .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value for all weights is above 0.8 at both thresholds .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

p1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value at weight 64 and 128 are comparable to each other at 0.75 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1)Precision value is lowest at weight 64 for threshold 0.8.

2)Precision value is lowest at weight 128 for threshold 0.85.

3) Precision value is highest at weight 320.

4) Precision value at weight 64 and 128 are comparable to each other at 0.8 threshold .

5)Precision value at weight 64 and 192 are comparable to each other at 0.85 threshold .

6) Precision value at weight 64 surpasses precision value at weight 128 at 0.85 threshold .

7)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 128 at threshold 0.9.

2) Precision value is highest for weight 320 for threshold 0.9.

3)Precision value is highest for all weights 64,128,192 ,256 and 320 ,which is equal to 1 for threshold 0.95.

4)Precision value at weight 64 and 192 and 256 are comparable to each other at 0.9 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.8 ,minimum value of precision value occurs at weight 64 but at 0.85 it surpasses 128 and precision value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 64.
4. The F1 value overall remains highest for weight of 320.

**Image Size =320**

For threshold: 0.5 to 0.55

1) Precision value is lowest at weight 64.

2) Precision value is highest at weight 320.

3) Precision value at weight 64 and 128 are comparable to each other at both thresholds .

4) Precision value at weight 192 and 256 are comparable to each other at 0.55 threshold .

5)Precision value for all weights is above 0.7 at both thresholds .

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.6 and 0.65

1) Precision value is lowest at weight 64 and 128 for both thresholds.

2) Precision value is highest at weight 320.

3) Precision value for all weights is above 0.8 at 0.65 threshold .

4)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.7 and 0.75

1) Precision value is lowest at weight 128.

2) Precision value is highest at weight 320.

3) Precision value at weight 192 and 256 are comparable to each other at both thresholds .

4)Precision value at weight 64 and 128 are comparable to each other at 0.7 threshold .

5)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.8 and 0.85

1) Precision value is lowest at weight 128 at threshold 0.8.

2)Precision value is lowest at weight 64 at threshold 0.85.

3) Precision value is highest at weight 320.

4) Precision value at weight 192 and 256 are comparable to each other at 0.8 threshold .

5)Precision value at weight 64 and 128 are comparable to each other at 0.8 threshold .

6)Precision value for all weights is above 0.9 at 0.85 threshold .

7)Precision value at weight 192 and 256 are comparable to each other at 0.85 threshold .

8)Precision value for weight 128 surpases precision value at weight 64

9)The Precision value for all the weights increased, this means that the graph is shifting upwards.

For threshold: 0.9 and 0.95

1) Precision value is lowest at weight 256 at threshold 0.9.

2)Precision value is lowest at weight 64 at threshold 0.95

3) Precision value is highest at weight 64 at threshold 0.9.

4)All weights have precison value 1,except weight 64.

5)Precision value of all weights surpass precision value of weight 64 at threshold 0.95.

6)The Precision value for all the weights increased, this means that the graph is shifting upwards.

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight
2. Till threshold 0.65 ,minimum value of precision value occurs at weight 64 but at 0.7 it gets surpassed and precision value becomes minimum at weight 128.
3. Till threshold 0.85 ,maxmum value of precision value occurs at weight 320 but at 0.9 it gets surpassed and precision value becomes maximum at weight 64.
4. The F1 value overall remains lowest for weight of 128.
5. The F1 value overall remains highest for weight of 320.

**final Conclusion:**

1. In general, overall performance of weight of 64 is weakest.
2. In general,overall performance of weight of 320 is best.
3. For image size 128 and 192 the overall best performance is at weight of 192.

# jetson\_tffp\_f\_vs\_wt\_ds1

**F1 value Vs weight**

Weights: 64,128,192,256,320

Thresholds: 0.5,0.55,0.6,0.65,0.7,0.75,0.8,0.85,0.9,0.95

Image size:64

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 192 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. F1 value for weight 64 and 128 are almost same at closer to 0.9 for threshold 0.5
4. F1 value for weight 64 and 128 are almost same and greater than 0.9 for threshold 0.55 so it is indicating the upward shift of graph along y-axis

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 192 and 256 for both threshold
2. F1 value is highest for weight 320 for both threshold
3. At 0.6 threshold, precision value for weight 64 is surpassing the F1 value for weight 128

For threshold 0.7 and 0.75:

1. F1 value is lowest for weight 192 for both threshold
2. F1 value is highest for weight 320 for threshold 0.7
3. F1 value is highest for weight 64 and 320 for threshold for threshold 0.75
4. At 0.7 threshold, F1 value for weight 256 is surpassing the F1 value for weight 192
5. At 0.75 threshold, F1 value for weight 64 and 320, and F1 value for weight 128 and 256 are same
6. F1 values for all weights for both thresholds lies between 0.9 to 1 so the graph is shifting in upward direction along y-axis.

For threshold 0.8 and 0.85:

1. At threshold 0.8, F1 value for weight 128 and 192 is lowest at equal
2. At threshold 0.85, F1 value for weight 128 is lowest and F1 value for weight 192 is surpassing the F1 value for weight 128
3. F1 value for weight 320 is highest for both threshold
4. For 0.8 threshold, F1 value for weight 320 is tending to approach 1 and at threshold 0.85 F1 value is 1

For threshold 0.9 and 0.95:

1. At 0.9 threshold, all the weights except 128 have F1 value 1
2. For 0.95 threshold, all weights have F1 value 1

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight line
2. Till threshold 0.8,minimum value of F1value occurs at weight 192 but at 0.85 it surpasses and F1value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 192.
4. The F1 value overall remains highest for weight of 320.

Image size:128

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 192 for both thresholds
3. F1 values for weights 128 and 256 are somewhat same

For threshold 0.6 and 0.65:

1. For 0.6 threshold, F1 value is lowest for weights 64 and 320
2. For 0.6 threshold, F1 value for weights 128 and 256 are same
3. For 0.65 threshold, F1 value for weight 64 is surpassing the F1 value for weight 320
4. F1 value is highest for weight 192 for both thresholds

For threshold 0.7 and 0.75:

1. F1 value is lowest for weight 320 for both thresholds
2. F1 value is highest for weight 192 for both thresholds
3. For threshold 0.75, F1 value for weight 64 and 128 are almost similar

For threshold 0.8 and 0.85:

1. F1 value is lowest for weight 320 for both thresholds
2. F1 value is highest for weight 192 for both thresholds and closer to 1 it is indicating the upward shift of graph along y-axis

For threshold 0.9 and 0.95:

1. At 0.9 threshold, F1 value for weight 128 is lowest and F1 values for weights 64,192 and 256 are very closer to 1
2. F1 value for weight 320 is second lowest
3. At 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight line
2. Till threshold 0.6,minimum value of F1value occurs at weight 64 but at 0.5 it surpasses and F1value becomes minimum at weight 320.
3. The F1 value overall remains lowest for weight of 320.
4. The F1 value overall remains highest for weight of 192.

Image size:192

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weights 192 and 256 for both thresholds

For threshold 0.6 and 0.65:

1. For 0.6 threshold, F1 value is lowest for weight 64
2. For 0.65 threshold, F1 value is lowest for weights 64 and 128
3. F1 value highest for weights 192 and 256 for both thresholds

For threshold 0.7 and 0.75:

1. At 0.7 threshold, F1 value for weight 64 is surpassing the F1 value for weight 128
2. F1 value lowest for weight 128 for both thresholds
3. At 0.7 threshold, F1 value is highest for weights 192 and 256
4. At 0.75 threshold, F1 value for weights 64 and 192 are equal and highest
5. F1 value for weight 192 is surpassing the F1 value for weight 256
6. F1 value for weight 256 and 320 are equal

For threshold 0.8 and 0.85:

1. F1 value is lowest for weight 128 for both thresholds
2. For 0.8 threshold, F1 value is highest for weights 64 and 192
3. For 0.85 threshold, F1 value is highest for weight 64 and it is reached 1
4. F1 value for weight 320 is approaching 1
5. Graph is shifting upward along y-axis

For threshold 0.9 and 0.95:

1. For 0.9 threshold, F1 value is lowest for weight 128
2. For 0.9 threshold F1 value for weight 64 and 192 reached 1
3. For 0.9 threshold, F1 value for weight 256 and 192 are same and approaching 1
4. For 0.95 threshold, F1 value for all weights reached 1 and F1- value for weight 128 is slightly less than 1

**Overall conclusion:**

1. As the threshold value increases, the nature of graph is becoming as a straight line
2. Till threshold 0.65, minimum value of F1value occurs at weight 64 but at 0.7 it surpasses and F1value becomes minimum at weight 128.
3. The F1 value overall remains lowest for weight of 128.
4. The F1 value overall remains highest for weight of 192

Image size:256

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. F1 value for weight 192 and 256 are similar for both weights
4. For 0.5 threshold lowest F1 value is 0.8 and 0.55 threshold lowest F1 value is greater than 0.8 so there is upward shift of graph

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. For 0.6 threshold, lowest F1 value is between 0.8 and 0.9 and for threshold 0.65 it is closer to 0.9
4. Highest F1 value for threshold 0.65 is approaching 1

For threshold 0.7 and 0.75:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value highest for weight 320 for both threshold and it is approaching 1
3. F1 value for weight 192 is surpassing the F1 value for weight 256

For threshold 0.8 and 0.85:

1. At 0.8 threshold, F1 value is lowest for weight 64
2. At 0.85 threshold, F1 value for weight 64 is surpassing the F1 value for weights 128 and 192
3. At 0.85 threshold, F1 value is lowest for weight 128
4. F1 value is highest for weight 320 for both thresholds and it is reached 1

For threshold 0.9 and 0.95:

1. For 0.9 threshold, F1 value is lowest for weight 128 rest of the weights are tending to reach 1 but F1 value for weight 320 has reached 1 so it is considered to be highest
2. For 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight line
2. The F1 value overall remains lowest for weight of 64.
3. The F1 value overall remains highest for weight of 320.

Image size:320

For threshold 0.5 and 0.55:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is Highest for weight 320 for both thresholds and it is closer to 1

For threshold 0.6 and 0.65:

1. F1 value is lowest for weight 64 for both thresholds
2. F1 value is highest for weight 320 for both thresholds
3. At 0.65 threshold, F1 value for weights 192 and 256 is similar

For threshold 0.7 and 0.75:

1. For 0.7 threshold, F1 value is lowest for weight 64
2. For 0.75 threshold, F1 value for weights 64 and 128 is lowest
3. F1 value for weight 320 is highest for both thresholds
4. F1 value for weights 192 and 256 is similar

For threshold 0.8 and 0.85:

1. For 0.8 Threshold, F1 value for weights 64 and 128 is lowest
2. For 0.85 threshold, F1 value for weight 64 is lowest
3. F1 value for weight 320 is highest for both thresholds
4. F1 value for weights 192 and 256 is similar

For threshold 0.9 and 0.95:

1. At 0.9 threshold, F1 value for weight 256 is tending to approach 1 and rest of the weights are reached 1
2. At 0.95 threshold, F1 value for all weights reached 1

**Overall Conclusion**:

1. As the threshold value increases, the nature of graph is becoming as a straight line
2. The F1 value overall remains lowest for weight of 64.
3. The F1 value overall remains highest for weight of 320.

**Final Conclusion:**

1. In general, overall performance of weight of 64 is weakest.
2. In general,overall performance of weight of 320 is best.
3. For image size 64 the overall worst performance is at weight of 192.
4. For image size 128 the overall best performance is at weight of 192 and overall worst at weight 320.
5. For image size 192 the overall best performance is at weight of 192 and overall worst at weight 128.