

classification	Report: precision	recall	f1-score	support
0	0.92	0.96	0.94	7952
1	0.59	0.40	0.48	1091
accuracy			0.89	9043
macro avg	0.75	0.68	0.71	9043
weighted avg	0.88	0.89	0.88	9043

```

graph TD
    Root["duration <= 110.0  
samples = 20358  
value = [11870, 4138]  
class = No"]
    Root -- True --> Node1["month <= 8.5  
20112  
[19870, 1442]  
No"]
    Root -- False --> Node2["duration <= 825.5  
4058  
[1260, 1798]  
No"]
    
    Node1 -- True --> Node3["age <= 40.5  
11184  
[79137.0, 7047.0]  
No"]
    Node1 -- False --> Node4["duration <= 138.5  
928  
[333, 385]  
No"]
    
    Node2 -- True --> Node5["contact <= 1.5  
2700  
[1744, 960]  
No"]
    Node2 -- False --> Node6["contact <= 1.5  
1356  
[565.0, 796.0]  
No"]
    
    Node3 -- True --> Node7["pdays <= 8.5  
3695  
[22970, 18002]  
No"]
    Node3 -- False --> Node8["duration <= 225.0  
619  
[374, 241]  
No"]
    
    Node4 -- True --> Node9["duration <= 82.5  
1248  
[248, 33]  
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    Node4 -- False --> Node10["duration <= 206.5  
167  
[285, 362]  
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    Node5 -- True --> Node11["duration <= 836.5  
1268  
[805]  
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    Node5 -- False --> Node12["duration <= 668.5  
727  
[552, 121]  
No"]
    
    Node6 -- True --> Node13["month <= 8.5  
1002  
[380, 625]  
No"]
    Node6 -- False --> Node14["day <= 28.5  
351  
[180.0, 171.0]  
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    Node7 -- True --> Leaf1["duration <= 124438.0  
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    Node7 -- False --> Leaf2["pdays <= 1137  
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    Node8 -- True --> Leaf3["duration <= 258.62  
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    Node8 -- False --> Leaf4["pdays <= 283  
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    Node9 -- True --> Leaf5["month <= 110.1  
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    Node9 -- False --> Leaf6["day <= 13.5  
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    Node10 -- True --> Leaf7["pdays <= 134.240  
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    Node10 -- False --> Leaf8["day <= 7  
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    Node11 -- True --> Leaf9["campaign <= 1861  
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    Node11 -- False --> Leaf10["housing <= 9.2  
No"]
    Node12 -- True --> Leaf11["balance <= 1375.74  
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    Node12 -- False --> Leaf12["duration <= 183.94  
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    Node13 -- True --> Leaf13["pdays <= 84  
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    Node13 -- False --> Leaf14["balance <= 132  
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    Node14 -- True --> Leaf15["month <= 117.138  
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    Node14 -- False --> Leaf16["education <= 13  
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