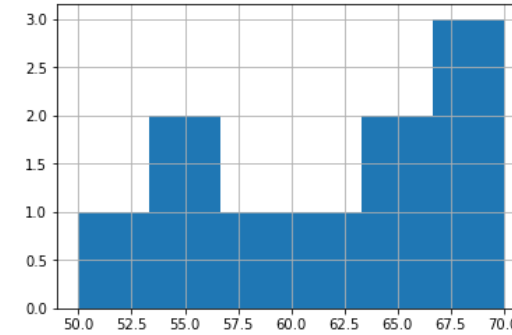




Income	Height	Weight	Age	Loan
50000	1.65	50	30	yes
53958	1.53	55	32	No
64789	1.67	65	35	yes
42875	1.71	67	28	Yes
47675	1.82	70	42	No
60234	1.78	68	33	yes
25000	1.56	58	44	No
54567	1.45	55	36	No
47823	1.55	61	45	Yes
56783	1.67	64	36	Yes

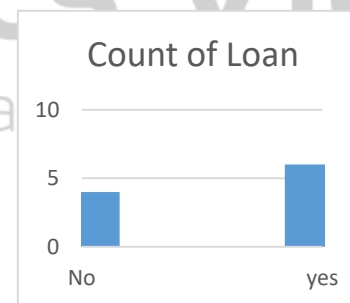
Analytics Vidhya
Learn everything about analytics

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Steps for creating a Decision Tree

1. Find the best feature and the best split from all the available features at that node.
2. Divide that node into two sub-nodes say left and right.
3. Perform step 1 recursively on both the sub-nodes till you meet a stopping criterion.

Best feature – None

Best split point – None

Best Gini Index – 0

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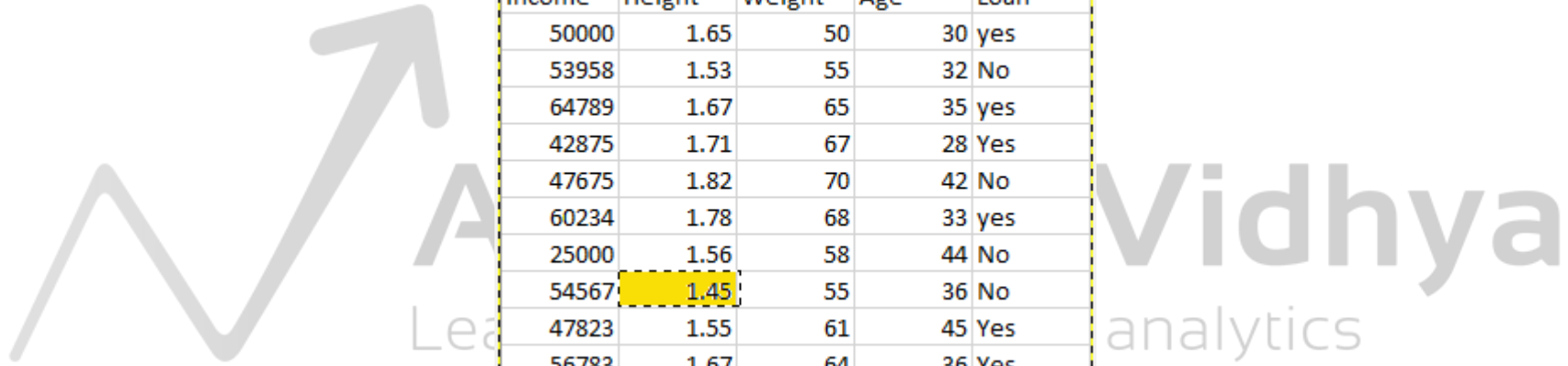
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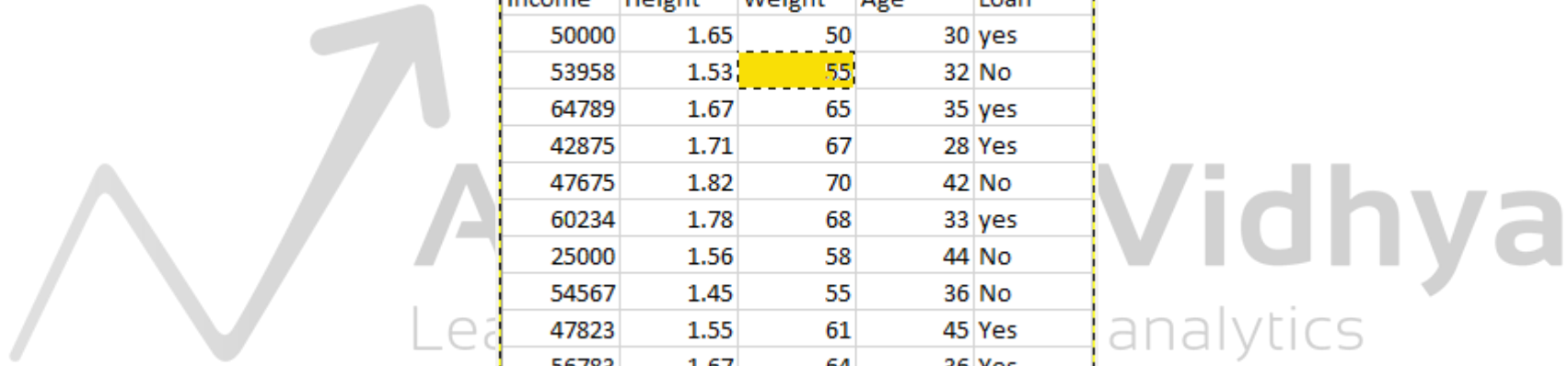
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47823	1.55	61	45	Yes
56783	1.67	64	36	Yes

Parent node

Income	Height	Weight	Age	Loan
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53958	1.53	55	32	No
64789	1.67	65	35	yes
42875	1.71	67	28	Yes
47675	1.82	70	42	No
60234	1.78	68	33	yes
25000	1.56	58	44	No
54567	1.45	55	36	No
47823	1.55	61	45	Yes
56783	1.67	64	36	Yes

Left node

Income	Height	Weight	Age	Loan
50000	1.65	50	30	yes
53958	1.53	55	32	No
25000	1.56	58	44	No
54567	1.45	55	36	No
47823	1.55	61	45	Yes

Right node

Income	Height	Weight	Age	Loan
64789	1.67	65	35	yes
42875	1.71	67	28	Yes
47675	1.82	70	42	No
60234	1.78	68	33	yes
56783	1.67	64	36	Yes