Summary	• Problem Statement: Given the performance of a student (input variable), how likely is the student to get placed (output variable)?							
	Will an MBA student get placed?							
	Predicting categorical outcomes							
	B-School: Business School							
	Categorical predictions							
	 Placement process B-Schools facilitates the graduates to pick up a job of their choice (amongst the available profiles). 							
	 The student attributes (academic performance, prior experience, internships) is expected to have a strong bearing on the outcome of the placement process. 							
	The outcome variable in the example is binary – a student either gets a job or she doesn't!							
	However, the idea is more generic – the outcome variable could have several categorical values.							
	Placement season: Data							
	Let us consider the following variables that may help explain placement chances of a student:							
	✓ Academic performance during the undergraduate degree.							
	✓ Academic performance during the MBA.							
	✓ Industry experience prior to joining the MBA program.							
	✓ Participation in the co-curricular and extra-curricular activities.							
	• Let us assume that all these variables are scored on a scale of 10.							
	• Lastly, our response variable is whether the student got placement or not (binary variable).							
	Placement season: Data							
	See the data in the Excel sheet.							
	Disclaimer : This is synthetic data. And it is not taken from any academic institute. This is for illustrative purposes only. This dataset should not be associated with any management program anywhere.							
	This is the given data:							
	Student MBA CGPA Experience UG CGPA Extra-curricular Day-0 placed							
	1 9.1 2.3 8.1 8.6 Placed 2 8.9 0 8.7 8.9 Placed							
	3 7 3.9 8 5.13 Not Placed 4 9.1 1.1 7.8 4.9 Not Placed							
	4 9.1 1.1 7.8 4.9 Not Placed 5 8.2 0.7 9.3 9.13 Placed							
	6 6.5 1.5 7.9 4.2 Not Placed							
	7 7.9 3.1 9.23 6.7 Not Placed							
	8 5.43 1.2 6.12 7.45 Not Placed 9 8.1 2.1 8.7 7.56 Placed							
	10 7.89 1.02 7.65 8.9 Placed							
	11 8.65 2.3 7.98 5.1 Placed							
	12 9.45 2.5 9.2 6.8 Placed 13 7.8 5.1 8.9 9.1 Placed							
	14 9.01 0.3 9.2 7.8 Placed							
	15 6.8 2.3 9.8 9.1 Not Placed							

16	7.14	0.4	8.56	6.89	Not Placed						
17	8.56	1.3	8.34	7.65	Not Placed						
18	7.4	0	8.7	5.6	Not Placed						
19	8.23	0	7.8	6.5	Not Placed						
20	7.3	0	7.1	8.56	Not Placed						
21	9.1	0	9.8	8.9	Placed						
22	7.8	1.3	6.7	8.2	Not Placed						
23	5.6	2.3	8.7	6.9	Not Placed						
24	8.1	1.78	7.28	7.9	Not Placed						
25	8.79	3.98	9.11	7	Placed						
26	7.19	0.2	8.16	6.7	Not Placed						
27	8.18	1.9	8.25	8.9	Not Placed						
Placed: 1Not Placed: 0											
Placement season: The Ask											
Given the data, what are we interested in?											
Of course, try and build a model that can help predict the chances of a student for whom the input data is available.											
Towards that, let us define the variables as:											
X_1 = Academic performance during the undergraduate degree.											
<i>X</i> ₂ =	Acaden	nic perf	performance during the MBA.								
X_3 = Industry experience prior to joining the MBA program.											
X_4 = Participation in the co-curricular and extra-curricular activities.											

Y = 1 if the student gets placed, and zero otherwise.