

Analysis of Admission Data for ISB Campus 2019

STATISTICAL AND MATHEMATICAL TOOLS FOR DATA SCIENCE

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MS(DS)-A

Question 1:

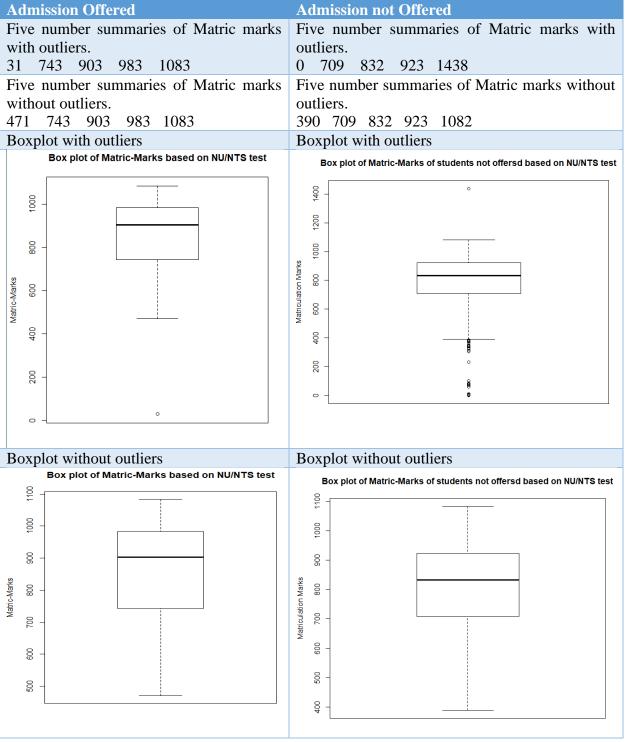


Table-1

For above table-1 We conclude that the matric-marks does not affect the NU admission. There are many students that have good marks in matric and they fail to get admission. And there are such students that have 471 marks and they have gotten the admission in NU.

So, if a student has more than 700 marks then he/she has a better chance to get admission in NU.

Question 2:

Our results for Intermediate same as Matric. Because we find that the marks of Intermediate and Matric are same. We conclude that its error in data because it is impossible that the all students have the same marks in Matric and Intermediate.

We conclude that the it is Matriculation marks because the having 471 marks of a students get admission in NU.

Question 4:

	Mean
Intermediate-Marks offered by NU-Test	865.19
Intermediate-Marks offered by NTS-Test	888.58
BS programs merit offered by NU-Test	62.81
BBA/BS(AF) merit offered by NU-Test	60.40
NTS merit offered by NU-Test	77.70

Table-2

For above Table-2 we conclude that Students who have passed the NU-Test have a better chance of joining NUCES because the average marks of intermediate of the students who take NTS-Test is greater than the average marks of intermediate of the students who take NU-Test. Similarly, the average of NTS merit list is greater than the NU merit list.

Question 6:

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> table(FAST_Campuses,Admission_BS_Programs, dnn = c("FAST Campuses
                                                                ","FAST BS Programs"))
              FAST BS Programs
FAST Campuses
               BBA BS(AF) BS(AI) BS(CS) BS(CSDF) BS(CV) BS(DS) BS(EE) BS(SE)
           CFD 139
                              0 611
                                            0
                                                  0
                                                          0
                                                               212
                      352
                             302
                                            305
           ISB 1176
                                  4399
                                                    0
                                                          85
                                                              1738
                                                                       0
                             0
                                            0
                       50
           KHI 208
                                  2686
                                                   0
                                                          0
                                                              377
                                                                      722
                       205
                               0
                                   5731
                                             0
                                                              1349
           LHR 819
                                                 1144
                                   260
                                                    0
                                                                      262
                                                               335
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The above results show that the BS(CS) program is a popular choice for admission in all campuses except Peshawar campus.

Question 6:

The correlation between Matric/O-level/F.Sc./A-Level and the NU-Test score of BS is 0.396.

The correlation between Matric/O-level/F.Sc./A-Level and the NU-Test score of BBA/BS(AF) is 0.354.

For above two correlation values we conclude that there is positive and weak correlation between Matric/O-level/F.Sc./A-Level and the NU-Test score. The marks of Matric/O-level/F.Sc./A-Level do not much effect of NU-Test.

Question 7:

Table of Intermediate Boa	ards	and number of	Table	e of	` probabilit	y of I	ntermediate
students having admission	n		Roard	de a	nd number	of stud	ents having
						or state	
			admis	ssion			
Ad	missi	ion offered in NU				Admission (offered in NU
All boards of intermediate FA	LSE 1	TRUE	A11 b	oards	of intermediate	FALSE	TRUE
Abbotabad	222	35		А	bbotabad	0.86381323	0.13618677
Agha Khan	129	105		А	gha Khan	0.55128205	0.44871795
Armed Forces	1	0			rmed Forces	1.00000000	0.00000000
Bahawalpur	293	93		В	ahawa 1 pur	0.75906736	0.24093264
Bannu	29	0		В	annu .	1.00000000	0.00000000
Cambridge	306	218		C	ambridge	0.58396947	0.41603053
	201	56			. G. Khan	0.78210117	0.21789883
D. I. Khan	32	6		D	.I.Khan	0.84210526	0.15789474
Faislabad	777	489		F	aislabad	0.61374408	0.38625592
Federal 2	940	975		F	ederal	0.75095785	0.24904215
Gujranwala	767	229		G	ujranwala	0.77008032	0.22991968
Hyderabad	272	95		Н	yderabad	0.74114441	0.25885559
	210	594		K	arachi	0.67073171	0.32926829
Kohat	55	13		K	ohat	0.80882353	0.19117647
Lahore 3	237 1	L206		L	ahore	0.72856178	0.27143822
Larkana	96	60		L	arkana	0.61538462	0.38461538
London	1	2		L	ondon	0.33333333	0.66666667
Malakand Div	29	3		M	alakand Div	0.90625000	0.09375000
Mardan	153	26		M	ardan	0.85474860	0.14525140
Mirpur	133	34		M	irpur	0.79640719	0.20359281
Mirpur Khas	140	82		M	irpur Khas	0.63063063	0.36936937
	488	175			ultan		0.26395173
Others	84	19			thers	0.81553398	0.18446602
Peshawar	492	100			eshawar	0.83108108	
Punjab Technical	43	2			unjab Technical		
Quetta	69	5			uetta		0.06756757
Rawalpindi	755	185			awalpindi	0.80319149	
	308	113			ahiwal	0.73159145	0.26840855
Sargodha	266	136			argodha	0.66169154	
Sawat	70	6			awat	0.92105263	
Sialkot	2	0			ialkot	1.00000000	
Sindh Technical	4	2			indh Technical		
Sukkur	139	69		5	ukkur	0.66826923	0.33173077

Table-3

For above table-3 we conclude that maximum admissions were from Lahore board. But if we ignore the "London" Agha Khan Board was successful in getting admission in NU. The probability of getting admission of Agha Khan Board is 0.44.

Question 8:

NU-Test for BS or BBA	Regions	Mean
BS	Sindh	31.41548
BBA	Sindh	28.24689
BS	Punjab	37.0281
BBA	Punjab	37.35511
BS	Balochistan	21.01878
BBA	Balochistan	27.29167
BS	Khyber Pakhtunkhwa	30.62925
BBA	Khyber Pakhtunkhwa	34.09987
BS	Federal	37.85012
BBA	Federal	38.71706

Table-4

For above table-4 we conclude that the Federal region performed best in NU-Test having mean 38.71706 for BBA and 37.85012 for BS programs.