### Percentile Analysis Report

## Percentile - finding the value below a given percentile

	sl_no	ssc_p	hsc_p	degree_ p	etest_p	mba_p	salary
Mean	108.0	67.3033 95	66.3331 63	66.3701 86	72.1005 58	62.2781 86	288655.4054 05
Median	108.0	67.0	65.0	66.0	71.0	62.0	265000.0
Mode	1	62.0	63.0	65.0	60.0	56.7	300000.0
Q1:25%	54.5	60.6	60.9	61.0	60.0	57.945	240000.0
Q2:50%	108.0	67.0	65.0	66.0	71.0	62.0	265000.0
Q3:75%	161.5	75.7	73.0	72.0	83.5	66.255	300000.0
99%	212.8 6	87.0	91.86	83.86	97.0	76.1142	NaN
Q4:100 %	215.0	89.4	97.7	91.0	98.0	77.89	940000.0

## 1) For the Secondary School Certificate (ssc\_p) scores:

- The bottom 25% of students scored at or below 60.6%.
- The median (50th percentile) score is 67.0%, meaning that half of the students scored at or below 67.0%. This is an increase of 6.4 percentage points from the 25th percentile.
- The 75th percentile is 75.7%, indicating that 75% of students scored at or below 75.7%. This is an 8.7 percentage point increase from the median.
- The 99th percentile is 87.0%, meaning that 99% of students scored at or below 87.0%.

- The maximum score(100%) is 89.4%, which is only 2.4 percentage points above the 99th percentile, indicating very few extremely high performers.
- 2) For the Higher Secondary Certificate (hsc\_p) scores:
- The bottom 25% of students scored at or below 60.9%.
- The median (50th percentile) score is 65.0%, meaning that half of the students scored at or below 65.0%. This is an increase of 4.1 percentage points from the 25th percentile.
- The 75th percentile is 73.0%, indicating that 75% of students scored at or below 73.0%. This is an 8.0 percentage point increase from the median.
- The 99th percentile is 91.8%, meaning that 99% of students scored at or below 99.8%.
- The maximum score(100%) is 97.7%, which is 5.84% percentage points above the 99th percentile, indicating multiple exceptional performers in higher secondary education.
- -More score diversity is observed in higher secondary and absolute top performers excel more in higher secondary than secondary school.
- 3) For the Degree Certificate (degree\_p) scores:
- The bottom 25% of students scored at or below 61.0%.
- The median (50th percentile) score is 66.0%, meaning that half of the students scored at or below 66.0%. This is an increase of 5 percentage points from the 25th percentile.
- The 75th percentile is 72.0%, indicating that 75% of students scored at or below 72.0%. This is a 6.0 percentage point increase from the median.
- The 99th percentile is 83.86%, meaning that 99% of students scored at or below 83.86%.

- The maximum score(100%) is 91.0%, which is 7.14% percentage points above the 99th percentile, indicating multiple exceptional performers in degree programs but decreased a considerable amount compared to higher secondary.

4)For the Entrance Exam (etest\_p) scores:

Scores range from 60.0% (Q1) to 98.0% (Max) – widest dispersion among all metrics.

- Top 1% scores ≥97.0%
- Maximum score (98.0%) is only 1.0% higher than 99th percentile  $\rightarrow$  Minimal headroom at the top , but is the highest maximum score when compared with others .

### **Performance**

• Struggling: ≤60.0% (bottom 25%)

• Competitive: >83.5% (top 25%)

• Exceptional: >97.0% (top 1%)

5) For the MBA (mba\_p) scores:

Scores range from 57.94% (Q1) to 77.89% (Max)
Top 1% scores ≥76.11%

 Maximum score (77.89%) is only 1.776% higher than 99th percentile → Minimal headroom at the top, and is the lowest maximum score when compared with others.

#### **Performance**

• Struggling: ≤57.94% (bottom 25%)

• Competitive: >66.255% (top 25%)

• Exceptional: >76.11% (top 1%)

# 6)Salary

**Key Statistics:** 

- 25th Percentile (Q1): ₹240,000
- 50th Percentile(Q2): ₹265,000
- 75th Percentile (Q3): ₹300,000
- 100th Percentile (Max): ₹940,000
- Extreme Outlier: The maximum salary (₹940,000) is 3.13× higher than Q3 (₹300,000), indicating there might be extreme outliers. As there is a
- The Middle 50% (₹240K-₹300K) represents the most stable amount.

#### **Conclusion:**

In conclusion the students show stronger pre-MBA academics (higher 99th percentiles) than MBA results.

Moreover scores were consistent overall, with students mostly clustering near the middle(average). In contrast pre-degree metrics (ssc\_p, hsc\_p, degree\_p) show balanced score distribution, scores from MBA/placement tests show compression (mba\_p, etest\_p). This indicates that there might be systematic constraints. Either the grading is too rigid or max scores are too low—making it hard to distinguish elite candidates.