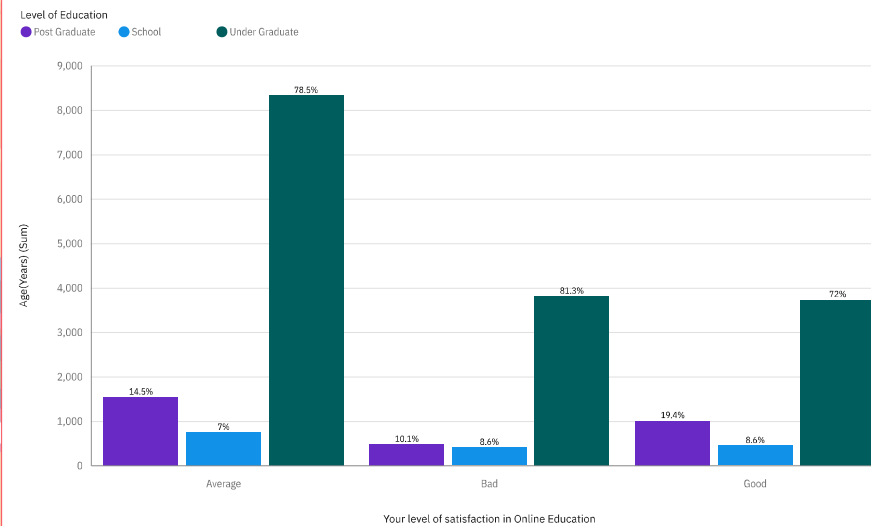# Unveiling the Virtual Classroom: An In-Depth Analysis of the Online Education System

Prepared By: **Gaurav Ganguly**

Level of satisfaction regarding online education by Age

- Age(Years) is unusually high when Level of Education is Under Graduate.
- Age(Years) is unusually high when Your level of satisfaction in Online Education is Average.
- Across all values of Your level of satisfaction in Online Education and Level of Education, the sum of Age(Years) is over twenty thousand.
- The summed values of Age(Years) range from 403 to nearly 8500.
- Age(Years) is unusually high when the combination of Your level of satisfaction in Online Education and Level of Education is Average and Under Graduate.
- For Age(Years), the most significant value of Level of Education is Under Graduate, whose respective Age(Years) values add up to nearly sixteen thousand, or 77.5 % of the total.
- For Age(Years), the most significant value of Your level of satisfaction in Online Education is Average, whose respective Age(Years) values add up to nearly eleven thousand, or 51.8 % of the total.
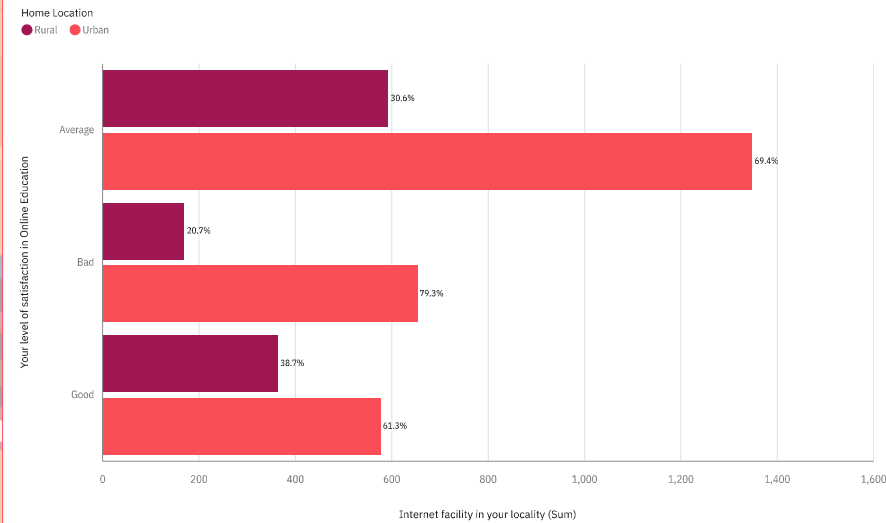
Age(Years) by Your level of satisfaction in Online Education colored by Level of Education

Level of Education
● Post Graduate　● School　● Under Graduate

Internet facility in the locality by level of satisfaction in Online Education

- Internet facility in your locality is unusually high when Your level of satisfaction in Online Education is Average.
- Across all values of Your level of satisfaction in Online Education and Home Location, the sum of Internet facility in your locality is over 3500.
- The summed values of Internet facility in your locality range from 170 to almost 1500.
- Internet facility in your locality is unusually high when the combination of Your level of satisfaction in Online Education and Home Location is Average and Urban.
- For Internet facility in your locality, the most significant value of Home Location is Urban, whose respective Internet facility in your locality values add up to over 2500, or 69.6 % of the total.
- For Internet facility in your locality, the most significant value of Your level of satisfaction in Online Education is Average, whose respective

Internet facility in your locality by Your level of satisfaction in Online Education colored by Home Location

Home Location
● Rural ● Urban

Average — Rural 30.6%, Urban 69.4%
Bad — Rural 20.7%, Urban 79.3%
Good — Rural 38.7%, Urban 61.3%

Your level of satisfaction in Online Education

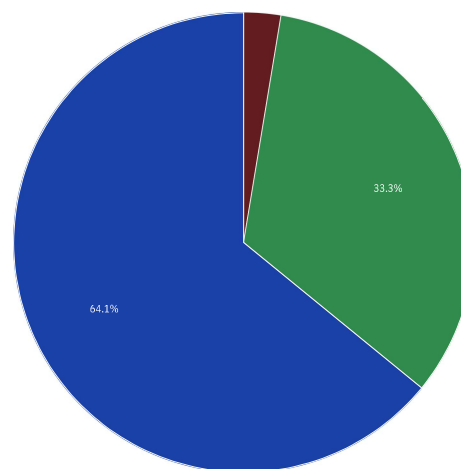Internet facility in your locality (Sum)

Time spent on social media by Device type used to attend classes

- Across all device type used to attend classes, the sum of Time spent on social media (Hours) is over 2500.
- Time spent on social media (Hours) ranges from 71, when Device type used to attend classes is Desktop, to over 1500, when Device type used to attend classes is Laptop.
- Time spent on social media (Hours) is unusually high when Device type used to attend classes is Laptop.

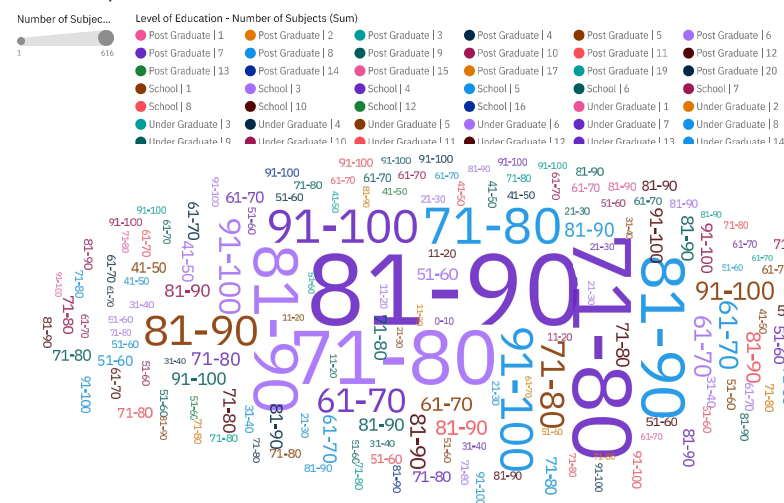Time spent on social media (Hours) by Device type used to attend classes

Device type used to attend classes
● Desktop ● Mobile ● Laptop

33.3%

64.1%

Average marks scored before pandemic in traditional classroom colored by Level of Education and Number of Subjects sized by Number of Subjects

- Over all average marks scored before pandemic in traditional classrooms and level of education - number of subjects, the sum of Number of Subjects is nearly 7500.
- The summed values of Number of Subjects range from 1 to 616.
- Number of Subjects is unusually high when the combination of Average marks scored before pandemic in traditional classroom and Level of Education - Number of Subjects is 81-90 and School|15.
- Number of Subjects is unusually high when Average marks scored before pandemic in traditional classroom is 81-90 and 71-80.
- For Number of Subjects, the most significant values of Average marks scored before pandemic in traditional classroom are 81-90 and 71-80, whose respective Number of Subjects values add up to over 4500, or 63.1 % of the total.
- For Number of Subjects, the most significant value of Level of Education - Number of Subjects is Under Graduate|7, whose respective Number of Subjects values add up to over 1500, or 21.9 % of the total.

Average marks scored before pandemic in traditional classroom colored by Level of Education and Number of Subjects sized by Number of Subjects

Correlation between Economic status, Home Location and Performance in online
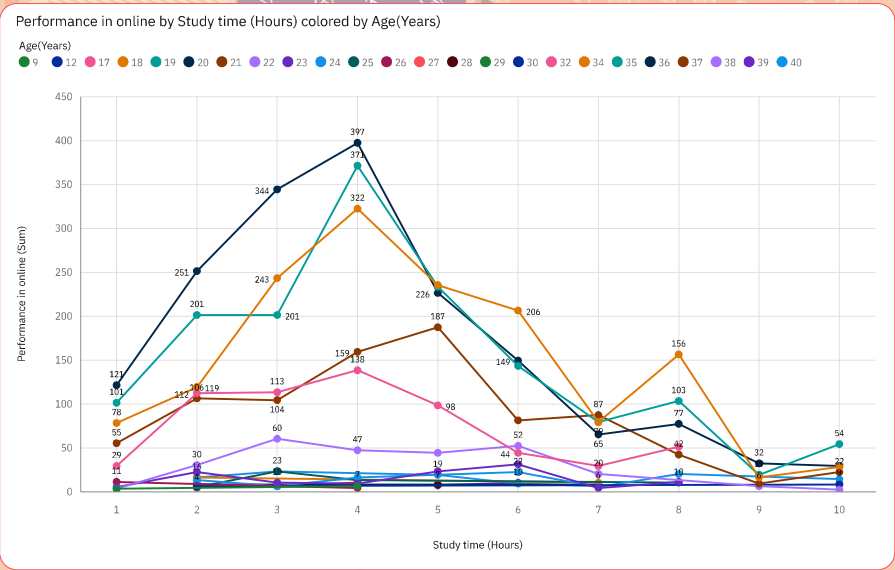
- According to this tabulation, rich rural students perform relatively better compared to other students.

Economic status, Home Location and Performance in online

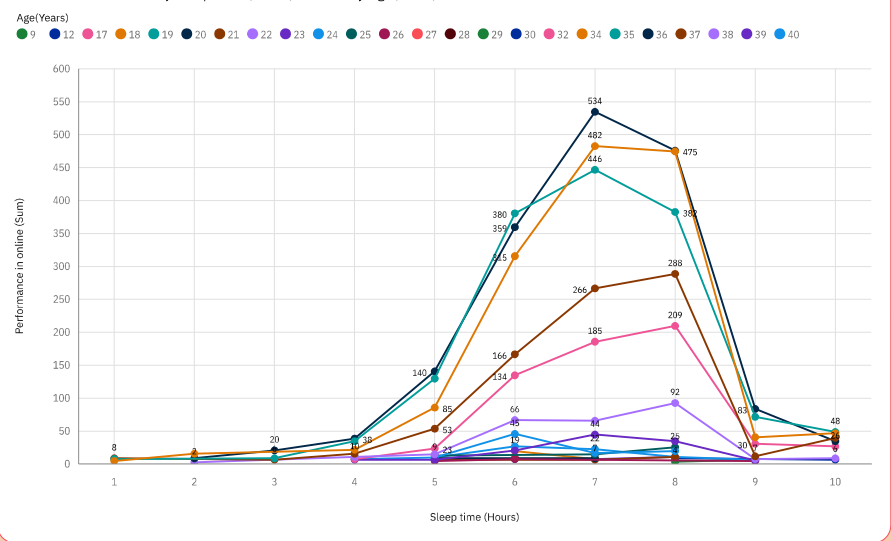| Economic status	Home Location	Performance in online
Middle Class	Rural	6.72
	Urban	6.68
Summary		6.69
Poor	Rural	6.49
	Urban	6.07
Summary		6.37
Rich	Rural	9
	Urban	7.11
Summary		7.3
Summary		6.7

Performance in online by Study time colored by Age

- Performance in online is unusually high when Age(Years) is 20, 19 and 18.
- Over all values of Study time (Hours) and Age(Years), the sum of Performance in online is nearly seven thousand.
- The summed values of Performance in online range from 2 to 397.
- Performance in online is unusually high when the combinations of Study time (Hours) and Age(Years) are 4 and 20, 4 and 19, 3 and 20 and 4 and 18.
- Performance in online is unusually high when Study time (Hours) is 4.
- For Performance in online, the most significant values of Age(Years) are 20, 19, and 18, whose respective Performance in online values add up to over 4500, or 67.6 % of the total.
- For Performance in online, the most significant value of Study time (Hours) is 4, whose respective Performance in online

Performance in online by Study time (Hours) colored by Age(Years)

Age(Years)
● 9 ● 12 ● 17 ● 18 ● 19 ● 20 ● 21 ● 22 ● 23 ● 24 ● 25 ● 26 ● 27 ● 28 ● 29 ● 30 ● 32 ● 34 ● 35 ● 36 ● 37 ● 38 ● 39 ● 40

Performance in online by Study time (Hours) colored by Age(Years)

Performance in online by Sleep time colored by Age

- Performance in online is unusually high when Sleep time (Hours) is 7 and 8.
- Performance in online is unusually high when Age(Years) is 20, 19 and 18.
- Over all values of Sleep time (Hours) and Age(Years), the sum of Performance in online is nearly seven thousand.
- The summed values of Performance in online range from 2 to 534.
- Performance in online is unusually high when the combination of Sleep time (Hours) and Age(Years) is 7 and 20.
- For Performance in online, the most significant values of Sleep time (Hours) are 7, 8, and 6, whose respective Performance in online values add up to over 5500, or 82.5 % of the total.
- For Performance in online, the most significant values of Age(Years) are 20, 19, and 18, whose respective Performance in online values add up to over 4500, or 67.6

Performance in online by Sleep time (Hours) colored by Age(Years)

Age(Years)
● 9 ● 12 ● 17 ● 18 ● 19 ● 20 ● 21 ● 22 ● 23 ● 24 ● 25 ● 26 ● 27 ● 28 ● 29 ● 30 ● 32 ● 34 ● 35 ● 36 ● 37 ● 38 ● 39 ● 40

Thank You.