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## A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Semester:\_\_\_

Subject : Blatistics for ATLDS Academic Year: 2023 2024,

BIAS

\* Statistical Bias refers to measurement or sampling errors that are systhematic and produced by the measurement or sampling process.

\* There are errors due to random chance and errors du lo bias.

\* An unbiased process will produce error, but it is random and does not tend strongly in any direction. (Refer PPT for d'agram).

\* In biased process there is error and it is

biased also.

SIZE V/s QUALITY!

\* When the data is huge, we neuturally choose random sampling. Time and effort spert on random sampling reduces bias and also one can pay greater attention to data emploration and data quality.

\* In millions of records, it is not feasible to consider missing dalà and outliers. Sometimes they contain useful and important information.

But if there is a random sample of some thousand records, then it is fearible to track down. \* Let us consider the search quenes from Google,

here coloumns are terms, rows are individual seach

Subject Incharge: Prof. Sarala Mary Page No. \_\_\_\_\_\_\_

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semester: 1 subject Statistics for AILDS Academic Year: 2038 2094, quences and cell values are either oto 1.

destination for a query. There are over 1,50,000 words in the English language, and Google procuses over one trillion queries per year. This is a true big data problem. But by popular search term, this is not at all a big problem.

The value of search technology lies in the ability to return useful and detailed result for a huge variety of search quanters.

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