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| **Program Name: Essential Statistics** | | | |
|  | **Session** | **Objectives** | **Program Structure** |
| **PART 1** | **About Variables**   1. What are variables ? 2. Dependent, independent variables 3. Scales 4. Importance of relation between variables 5. Concept of significance in analyzing variable relations 6. Concept of normal distribution 7. Statistical reasoning | Introduction to types of variables and how variables influence each other. The importance of identifying correct variables that link to the objectives | Presentations, discussions |
| **Descriptive Statistics**   1. Data about data 2. Correlations 3. Regression | A thorough introduction to metrics about data such as mean, median, quantiles, mode, relation between variables | Presentations, discussions,  Case studies on implementation of machine learning |
| **PART II** | **Inferential Statistics**   1. Concept of samples and population 2. Infer about population from sample 3. Concepts of statistical techniques Ttest, Anova 4. Confidence levels, intervals and P Value | A conceptual introduction to inferential statistics | Presentations, discussions, hands on?  This will not be an in-depth mathematical session |