**Submission Date : 9-Jan-2023**

**Create a table as below :**

**Application Name:**

**Reference Table for the concepts covered in course**

|  |  |
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| **Data Preprocessing** | **Introduction to Colab**  **Pandas – Data Frames**  **Data Selection**  **Sorting**  **Grouping**  **Merge/concatenation/join**  **Crosstab**  **Data normalization**  **Missing data treatment**  **Converting categorical values** |
| Visualisation | Line chart  Bar Chart  Pie chart  Scatter plot  Box plot  Violin plot  Dist plot  Overlay graphs |
| **Descriptive statistics** | Central tendency--- Mean, median, mode  Measure of variability--- Range, IQR, Variance, stdev  Skewness, kurtosis--- Spread of data  Correlation / covariance--- Finding closeness and change across variables |
| Probability | Uniform  Binomial  Poisson  Normal  Weibull  Exponential  Bayes theorem |
| *Sampling distribution* |  |
| *Confidence Interval* |  |
| Test | Introduction to hypothesis testing  Null & alternative hypothesis  Errors Type – 1 & 2  Level of significance, rejection and acceptance region  Type of test (one tail, two tail)  Z – test  t-Test, chi-square Test  P-value method, critical value method  Testing mean |
| *Estimation: Percentiles, The Bootstrap.* |  |
| *Confidence Intervals* |  |
| *Correlation & Regression Line* | *Corr Coeff*  *Regression effect* |
| *MSE, RMSE, R2* |  |
| *Residual Plots* | *Detecting non-linearity.*  *Regplot, Residplot ,distplot (seaborn)* |
| *Classification* | Linear ,Logistic,Decision tree,KNN |
| *Model comparison* | Model Comparison Metrics |

<<Under the table list all the concepts that you had completed for the application>>

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Create folder for each of the concepts and place the code, word document,ppt completed for each of the concepts