# M.Sc. Semester - 1

Subject: Fundamental of Data Science

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PRACTICAL ASSIGNMENT

Download given credit card spend analysis dataset and perform following operations.

Download specified dataset: cc\_india.csv

* 1. Import csv file and perform exploratory data analysis by identifying size of the datasets, column information and null values.
  2. Identify patterns such as gender wise spend anaysis, credit card category wise spend and month wise spends of the cutomers.
  3. Perform co-relation analysis for the given columns and generate co-relation matrix for the same. Identify co-relation patterns of credit card spends.
  4. Identify city wise analysis and percentage of customers having spend grater than 5 lacs. Identify type of expenses according to gender of customer.
  5. Implement appropriate graphs for each operations.

Download given survey dataset of effect of music on mental health and perform following operations.

Download specified dataset: mxmh\_survey\_results.csv

Q.1 Import csv file and perform exploratory data analysis by identifying size of the datasets, column information and null values.

Q.2 Identify patterns such as age wise user data, streaming service usage category wise and how many hours per day of the users.

Q.3 Perform co-relation analysis for the given columns and generate co-relation matrix for the same. Identify co-relation patterns of credit card spends.

* 1. Identify genre wise analysis and percentage of users having effects of imporvement due to listening music. Identify type of diseases which and its relation with music.
  2. Implement appropriate graphs for each operations.