**Automatic Data Summarization**

Name: Divyansh Agarwal Mentor: Rohit Singh

## Problem Statement

* + To generate summaries of lending documents,condensing a piece of document to a shorter version, with the aim to retain key information elements and contextual meaning
  + Producing a concise and fluent summary of the lending documents and deeds without any help of human preserving the meaning of the original text
* **How does it work?**
  + Two different approaches for the Automatic Summarization
  + Extractive Based Approach
  + Abstractive Based Approach
  + Extractive Based Approach: Identifies the important sections of the text, crops out of the text and stitch the portions of the content.
  + Abstractive Based Approach: Aims at producing the the summary by interpreting the text, going sequence to sequence and extracting the important section of the text
* **Approach:**
  + Pre- Processing of the data
  + Feature Extraction from the sentences and paragraphs
  + Feature Enhancement vector is created from the sentences
  + Deep Learning model: Robert Boltzman Machine, having 1 hidden layer and 1 visible layer extracts summary from the enhanced vector by using the concept of similarity and sorting the feature vector
  + Summary is Generated
* **How will this help?**
  + A system like this will help in processing the large documentation and help in changing them into smaller form
  + Help in giving quick factual data out from the lending documents
  + Help in retaining the important factual data quicker and less cumbers one.