**Experiment No-9**

**Aim: Study of any one data mining tool and all the activities supported by it.**

**RapidMiner:**

RapidMiner is a world-leading open-source system for data mining. It is available as a stand-alone application for data analysis and as a data mining engine for the integration into own products. **RapidMiner is now RapidMiner Studio** and RapidAnalytics is now called RapidMiner Server.

In a few words, RapidMiner Studio is a "downloadable GUI for machine learning, data mining, text mining, predictive analytics and business analytics". It can also be used (for most purposes) in batch mode (command line mode).

**TOOL CHARACTERISTICS**

**Usability**: This tool is rather easy to use.

**Tool orientation**: This tool is designed for general purpose analysis.

**Data mining type:** This tool is made for Structured data mining, Text mining, Image mining, Audio mining, Video mining, Data gathering, Social network analysis.

**Manipulation type**: This tool is designed for Data extraction, Data transformation, Data analysis, Data visualisation, Data conversion, Data cleaning.

**Import format**:SQL, TXT, XLS, XML, a lot more

**Export format:**CSV, XML, XSL, a lot more

**Tool can perform:**

* **Data extraction of type:** Web crawler, Flat file database/Logfile extractor, Structured database extractor
* **Transformation of type:** Simple data format conversion, Simple data transformation operations, Advanced data transformation operations, Mathematical transformation of data for analysis
* **Data analysis of type:** Basic statistics and data summarization, Data mining methods and algorithms
* **Data visualisation of type:** Sequential Graphic, Chart/Diagram, Tag Cloud
* [**Application and Interface**](https://rapidminer.com/products/studio/feature-list/#application): Powerful visual programming environment
* [**Data Access**](https://rapidminer.com/products/studio/feature-list/#data_access)**:** Access, load and analyze any type of data
* [**Data Exploration**](https://rapidminer.com/products/studio/feature-list/#data_exploration): Extract statistics and key information
* [**Data Prep**](https://rapidminer.com/products/studio/feature-list/#data_prep): Expertly cleanse data for predictive analytics
* [**Modeling**](https://rapidminer.com/products/studio/feature-list/#modeling)**:** Efficiently build and delivers better models faster
* [**Validation**](https://rapidminer.com/products/studio/feature-list/#validation): Confidently & accurately estimate model performance
* [**Scoring**](https://rapidminer.com/products/studio/feature-list/#scoring): Score models for the RapidMiner platform or other applications
* [**Automation**](https://rapidminer.com/products/studio/feature-list/#validation): Use programming constructs inside RapidMiner Studio