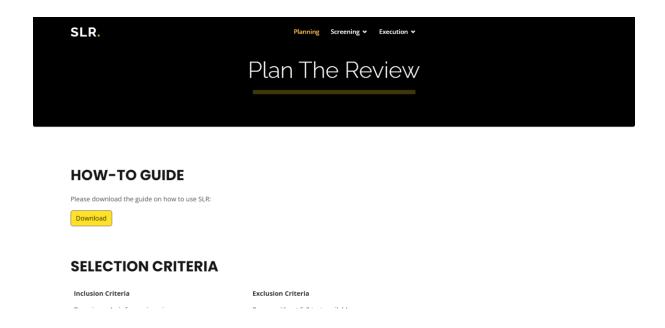
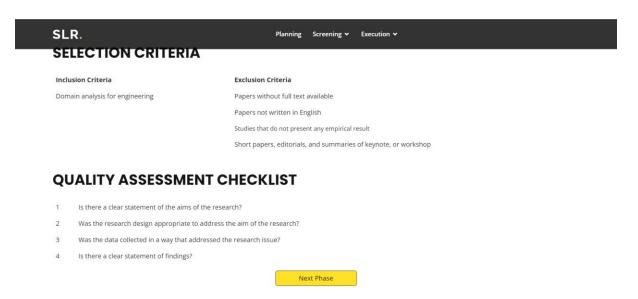
How-To-Use Systematic Literature Review (SLR)

Planning Page

- 1. Go to this link: http://slr.aminhakim.tech
- 2. Press on 'Download' button to download How-To Guide

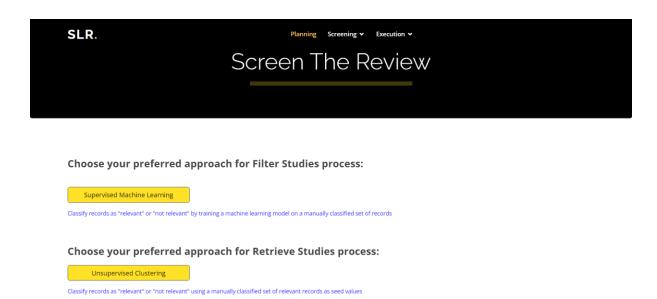


3. Click on 'Next Phase' button to proceed to the 'Screening' page



Screening Page

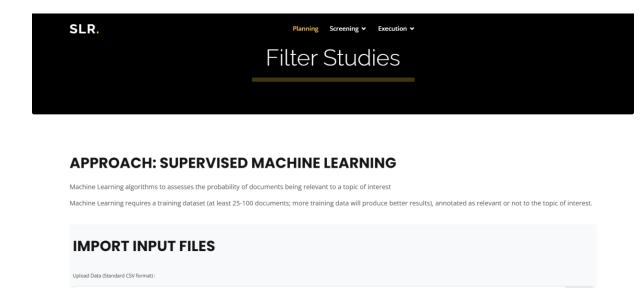
- 1. User will be redirected to 'Screening' page from previous steps or can use this link:
- 2. Choose either Supervised Machine Learning or Unsupervised Clustering



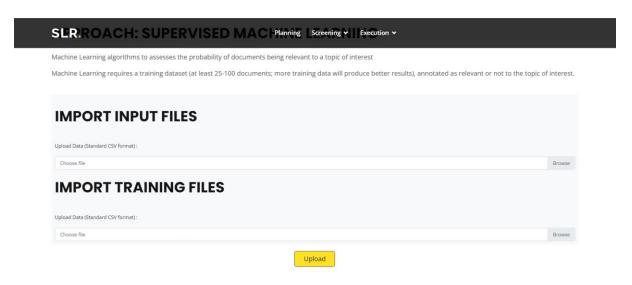
IF choose 'Filter - Supervised Machine Learning

Filter Page - Supervised Machine Clustering

1. User will be redirected to 'Filter' page from previous steps or can use this link:



- 2. Upload one file for 'Input File' and one file for 'Training File'
- 3. Click on 'Upload' button



ALGORITHM SETTINGS

Requirement for 'Input File'

	Α	В	С	D	Е
1	Title	Abstract	Year	Authors	Label
2	A Concept	This is an o	2006	Anicet Yala	1
3	A Quantita	Require	2007	Alan Davis	1
4	A survey a	A comp	2007	Huzefa Ka	0
5	An analysis	OBJECTIVE	2005	Carolyn M	0
6	Challenges	Modeling i	2014	Michiel Re	1
7	Controver	This article	2007	M. N. Wicl	0
8	Data sets a	OBJECTIVE	2005	Gernot A.	1
9	Developing	Open sour	2015	Joseph Fel	1
10	Effectiven	This paper	2006	By Alan Da	1
11	Evidence-E	Several stu	2005	By Magne	1
12	Experimen	There is a	2005	Martin H?s	1
10	п в		2000		

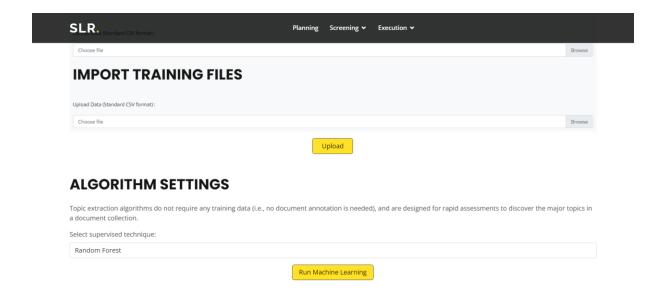
- o Make sure the file format is .CSV
- o Must has Abstract, Year, Authors, Label columns
- o Make sure the titles of columns are correctly spelled
- o Label column are filled as follows:
 - 1 For relevant paper
 - 0 For irrelevant paper

• Requirement for 'Training File'

	Α	В	C	D
1	Title	Abstract	Year	Authors
2	A Concept	This is an c	2006	Anicet Yala
3	A Quantita	Require	2007	Alan Davis
4	A survey a	A comp	2007	Huzefa Ka
5	An analysis	OBJECTIVE	2005	Carolyn M
6	Challenges	Modeling i	2014	Michiel Re
7	Controver	This article	2007	M. N. Wicl
8	Data sets a	OBJECTIVE	2005	Gernot A.
9	Developing	Open sour	2015	Joseph Fel
10	Effectiven	This paper	2006	By Alan Da
11	Evidence-E	Several stu	2005	By Magne
12	Experimen	There is a	2005	Martin H?s
10			2000	

- Make sure the file format is .CSV
- o Must has Abstract, Year, Authors columns
- o Make sure the titles of columns are correctly spelled

- 4. Select Supervised Machine Learning algorithm to use
- 5. Click on 'Run Machine Learning' button



Filter Output Page

- 1. User will be redirected to 'Filter Output' page
- 2. This page can only be accessed through 'Run Machine Learning' button from previous page
- 3. SLR will display the result of training the 'Training File' from previous page



RESULTS

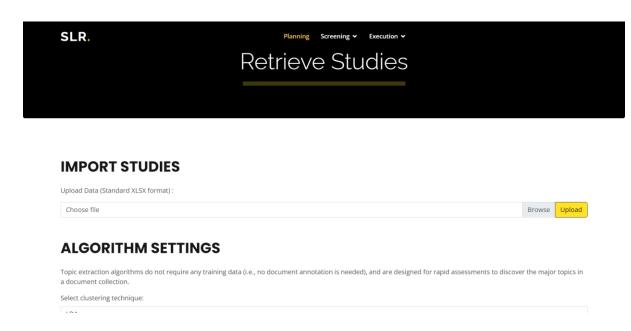
No.	Year	Title	Authors	Predict
0	2006	A Conceptual Model of ICT-Supported Unified Process of International Outsourcing of Software Production	Anicet Yalaho	1
1	2007	A Quantitative Assessment of Requirements Engineering Publications ? 1963? 2006	Alan Davis , Ann Hickey , Oscar Dieste , Natalia Juristo and Ana Moreno	1
2	2007	A survey and taxonomy of approaches for mining software repositories in the context of software evolution	Huzefa Kagdi, Michael L. Collard, Jonathan I. Maletic	1
3	2005	An analysis of data sets used to train and validate cost prediction systems	Carolyn Mair, Martin Shepperd, Magne J?rgensen	1

- 4. Click on 'Download' button to download the 'Training file' that has been trained with Machine Learning (as shown in the table)
- 5. This trained 'Training file' will be used for the next phase
- 6. Click on 'Next Phase' button to proceed to the 'Assess' page

IF choose 'Retrieve - Unsupervised Clustering'

Retrieve Page - Unsupervised Clustering

1. User will be redirected to 'Retrieve page from previous steps or can use this link:

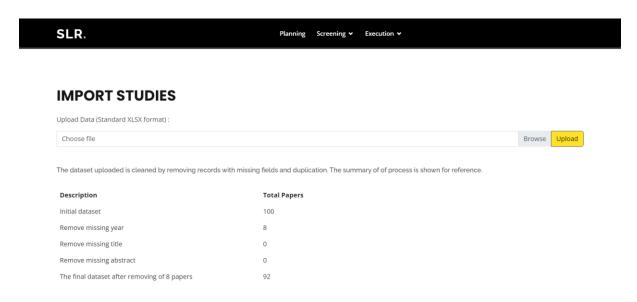


- 2. Upload one file for 'Import Studies'
- 3. Click on 'Upload' button
 - Requirement for 'Import Studies' file

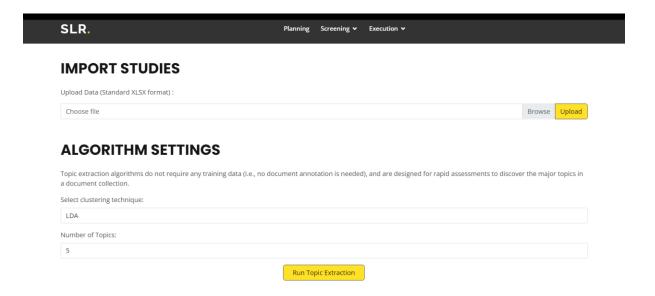


- Make sure the file is downloaded from Scopus and choose Export to Excel
- When exporting, choose 'Record Content' as Full Record
- Make sure the format is .XLSX
- Do not change anything on the file downloaded
- o Rename the file if needed

4. SLR will display the result of cleaning files from paper that are missing either Year, Title or Abstract\



- 5. Select Unsupervised Clustering algorithm to use
- 6. Click on 'Run Topic Extraction' button



Retrieve Output Page

- 1. User will be redirected to 'Retrieve Output' page
- 2. This page can only be accessed through 'Run Unsupervised Clustering' button from previous page
- 3. SLR will display the result of training the 'Import Studies' file from previous page



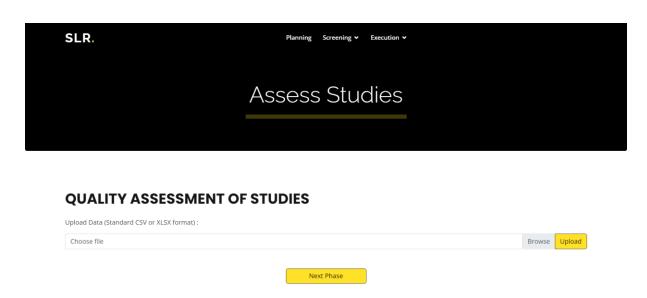
RESULTS

No.	Year	Title	Authors	Topics
0	2021	Conceptual Modeling Interacts with Machine Learning - A Systematic Literature Review	Zaidi, MA	3
1	2021	Convergence of Gamification and Machine Learning: A Systematic Literature Review	Khakpour, A; Colomo-Palacios, R	2
2	2019	Sofware engneering challenges for machine learning applications: A literature review	Kumeno, F	0
3	2017	Systematic Literature Review on Software Effort Estimation Using Machine	Sharma, P; Singh, J	3

- 4. Click on 'Download' button to download the 'Import Studies' file that has been trained with Unsupervised Clustering (as shown in the table)
- 5. This trained 'Import Studies' file will be used for the next phase
- 6. Click on 'Next Phase' button to proceed to the 'Assess' page

Assess Page

1. User will be redirected to 'Assess' page from previous steps or can use this link:



- 2. Upload one file for 'Quality Assessment'
- 3. Click on 'Upload' button

IF choose 'Filter' - Supervised Machine Learning

Make sure the format is .CSV

IF choose 'Retrieve – Unsupervised Clustering

Make sure the format is .XLSX

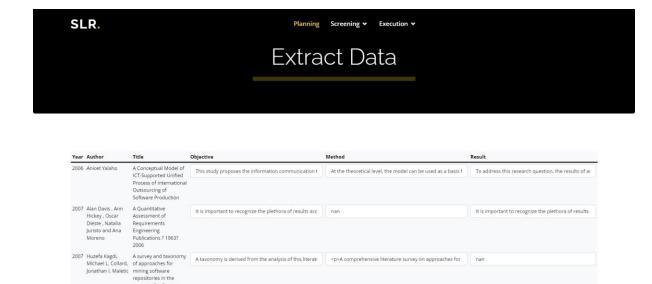
Requirement for 'Quality Assessment' file

	Α	В	С	D	Е	F	G
1	Index	Title	Abstract	Year	Authors	Predict	Relevant
2	0	A Concept	This is an o	2006	Anicet Yala	1	1
3	1	A Quantita	Require	2007	Alan Davis	1	1
4	2	A survey a	A comp	2007	Huzefa Ka	1	1
5	3	An analysis	OBJECTIVE	2005	Carolyn M	1	0
6	4	Challenges	Modeling i	2014	Michiel Re	1	1
7	5	Controver	This article	2007	M. N. Wicl	1	1
8	6	Data sets a	OBJECTIVE	2005	Gernot A.	1	0
9	7	Developing	Open sour	2015	Joseph Fel	1	1
10	8	Effectiven	This paper	2006	By Alan Da	1	0
11	9	Evidence-E	Several stu	2005	By Magne	1	0
12	10	Experimen	There is a	2005	Martin H?s	1	0

- DO NOT delete any column
- Add 'Relevant' column and fill the column as follows
 - 1 For Relevant paper
 - 0 For Irrelevant paper
- Make sure the 'Relevant' column is correctly spelled

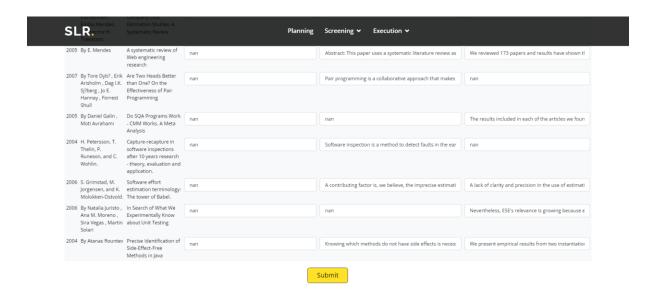
Extract Data Page

- 1. User will be redirected to this page from the previous page.
- 2. Only paper that are labelled as 'Relevant' or 1 will be shown
- 3. Choose Objective, Method, and Result for each paper.



4. Click on 'Submit' button to proceed to the next phase.

context of software



Synthesis Page

- 1. User will be redirected to this page from the previous page
- 2. SLR will show the Word Cloud for Objective, Method, and Result



RESULT

Word Cloud - Objective



- 3. SLR will show the Pie and Bar Chart for selected papers
- 4. User will be able to use 'Download' button to download all the diagrams displayed.

