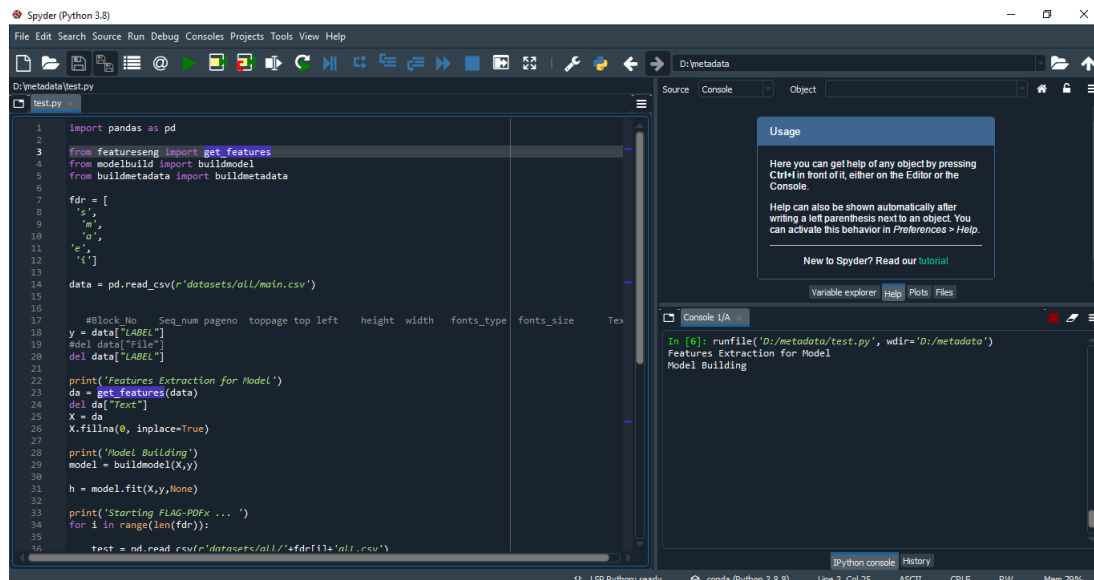
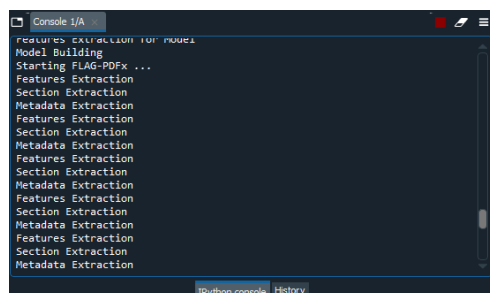


Help File to Execute the code and verify extracted Metadata

1. The folders “\metadata\datasets” has the code and extracted PDF content in form of CSV files
2. Please install python 3.7 version
3. In \metadata folder is test.py file. This is the main file which run the complete code



4. When test.py is executed then console file shows the process stages. The Model Building stage is based on system specifications.
5. When complete process is completed then the system generates the output file in form of metadata CSV files.



6. The main.csv is used to build the model
7. The metadata\datasets\all has csv with file names like ialL (i, e, m, s, a represents different publishers). These files contain the extracted pdf content with geometric and fonts info.
8. The output of system is in metadata\datasets\ folder (with initial class label and section postfix).
 - a. TI - Title
 - b. AU- Authors
 - c. AFF- Affiliations
 - d. EM- Emails
 - e. HL- Header/ footers
 - f. H1- Heading level 1
 - g. H2- Heading level 2
 - h. H3- Heading level 3

- i. TA- Table
 - j. FI- Figures
 - k. ACK- Acknowledgements
 - l. RE- References
9. Dataset Folders ds\Annotated\ has subfolders publisher wise.
 10. Each csv file has the metadata of same file pdf
 11. To verify output

Excel interface showing the Data tab and a filter dropdown menu. The filter is set to 'filename' and the dropdown shows a list of values (m10, m11, m12) with a search box containing 'm1'. The search results show 'No matches'.

Excel interface showing the Data tab and a filter dropdown menu. The filter is set to 'filename' and the dropdown shows a list of values (m10, m11, m12) with a search box containing 'm1'. The search results show 'No matches'.

Excel interface showing the Home tab and a list of data. The list includes columns for 'filename', 'top', 'Text', and 'm1'. The data is filtered by 'm1' and the results are displayed in the 'mH2' sheet.

filename	top	Text	m1
m1	1551	2.1. Chemicals	
m1	1621	2.2. Samples and Reagents Preparation	
m1	5623	3.4. The Nature of Running Buffer Affects Spikes Detection	
m1	5800	3.5. The Link between Spikes and Aggregates Is Supported by Ultrasound-Treatment of Samples	
m1	5897	3.6. The Use of Thioflavine T in Running Buffer Must Be Carefully Controlled and Validated	

Excel interface showing two windows: m1 - Excel and mHL - Excel.

m1 - Excel

Formula bar: B10 = 33

	A	B	C	D
1	title	Advances and Pitfalls in the Capital		
2	journal	MDPI Separations		
3	accepted on	14/12/2017		
4	published on	22/12/2017		
5	pages	16		
6	doi	10.3390/separations5010002		
7	issue			
8	vol			
9	year	2018		
10	reference	33		

mHL - Excel

Formula bar: C2 = Separations 2018 , 5 , 2; doi:10.3390/separations5010002 www.mdpi.com/journal/separations

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	filename	top	Text													
2	m1	843	Separations 2018 , 5 , 2; doi:10.3390/separations5010002 www.mdpi.com/journal/separations													

Taskbar: papermetadata | authors | keywords