# ML Tool - Multi-purpose Machine Learning Tool



#### Full demo of the application:

https://www.dropbox.com/s/h11afe4xx6xwqtu/ML%20Tool%20Demo%20Video.mp4?dl=0

## A web application tool for

- Data Pre-Processing
- Data Visualization
- ML Model Training

#### Frameworks used:

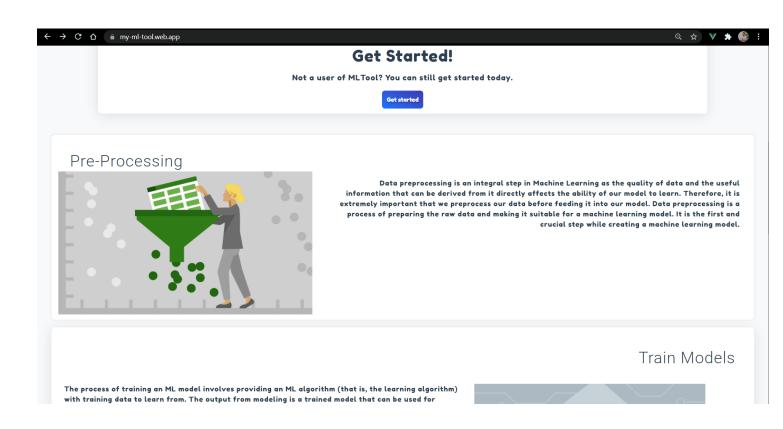
- Front-end Framework: Vue JS
- Back-end Framework: Flask

#### **Novel Features:**

- Option for users to pre-process the dataset automatically (if user is not sure how to pre-process data) or customise the attributes for pre-processing.
- Get best possible parameters for the ML Model. It uses Randomized Search Algorithm to get parameters using which best possible accuracy for a model can be achieved.

#### Homepage:







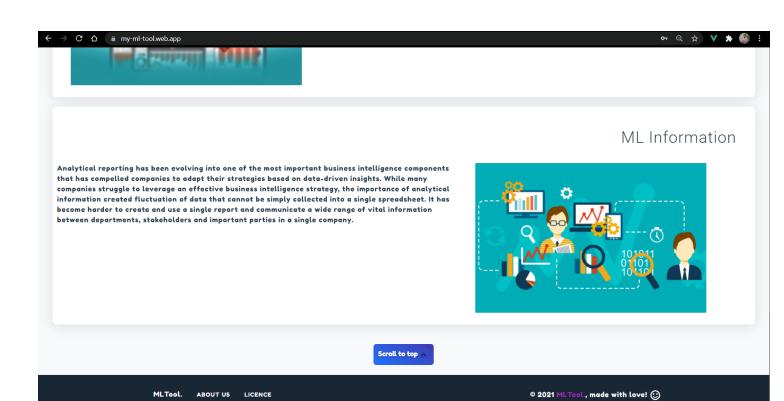
The process of training an ML model involves providing an ML algorithm (that is, the learning algorithm) with training data to learn from. The output from modeling is a trained model that can be used for inference, making predictions on new data points.



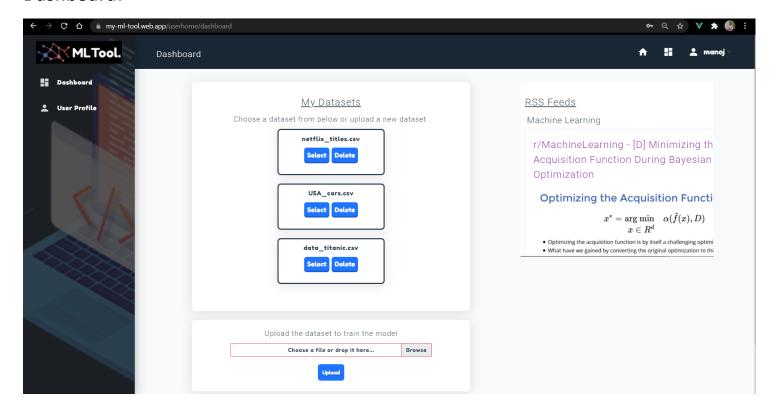
#### Visualization



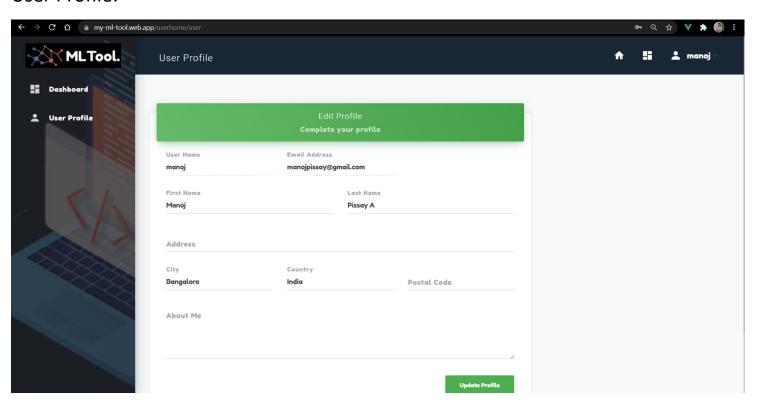
Data visualization is a technique that uses an array of static and interactive visuals within a specific context to help people understand and make sense of large amounts of data. The data is often displayed in a story format that visualizes patterns, trends and correlations that may otherwise go unnoticed. Data visualization is regularly used as an avenue to monetize data as a product.



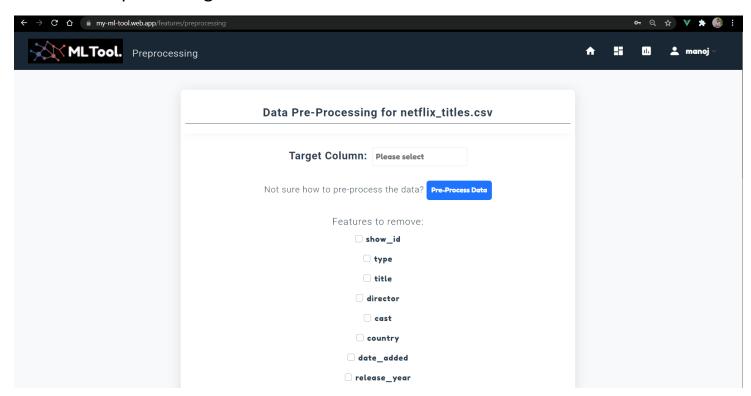
#### Dashboard:

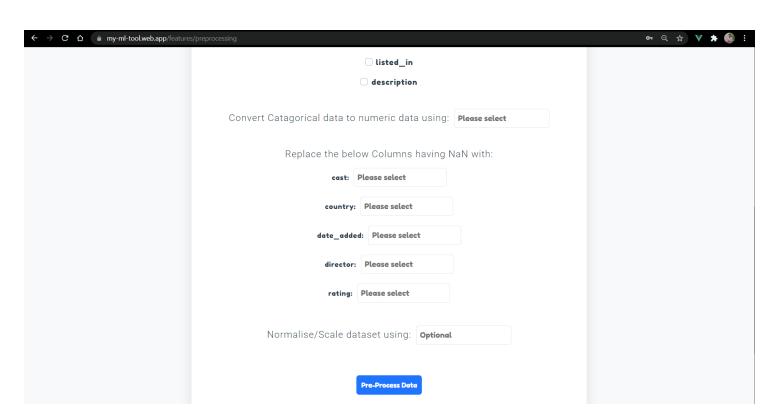


#### User Profile:

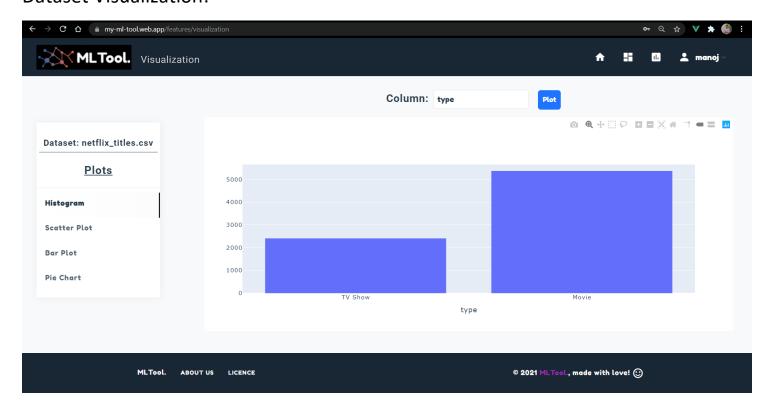


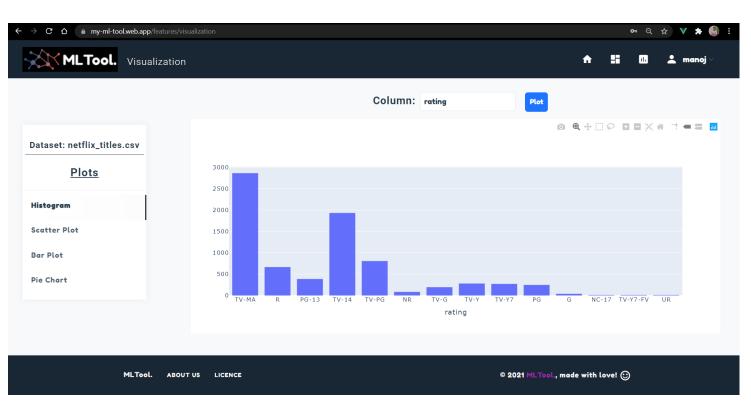
#### Dataset Pre-processing:

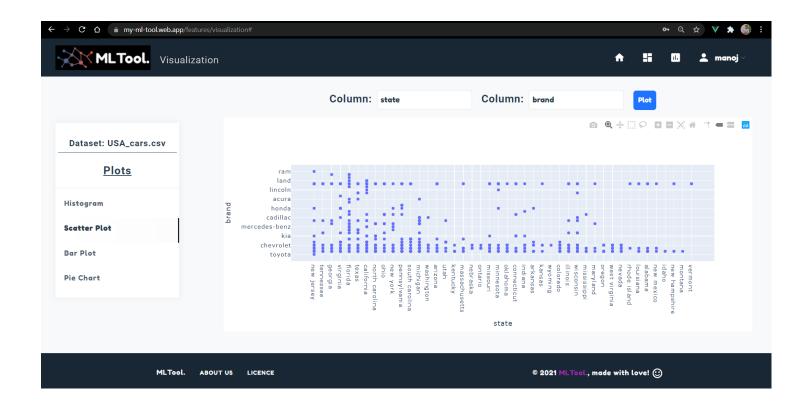


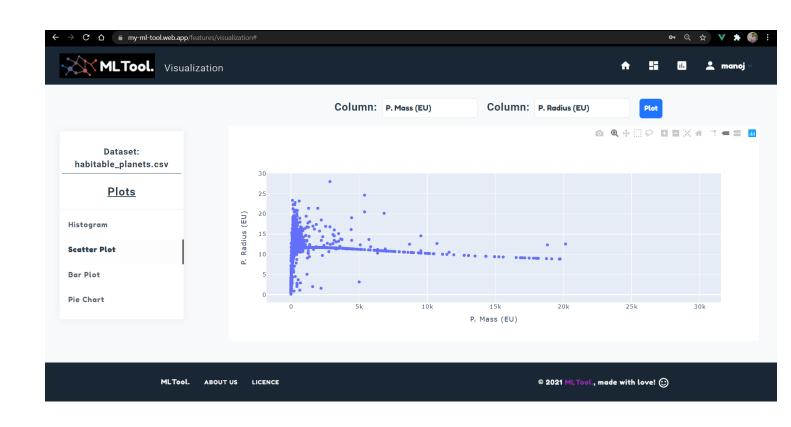


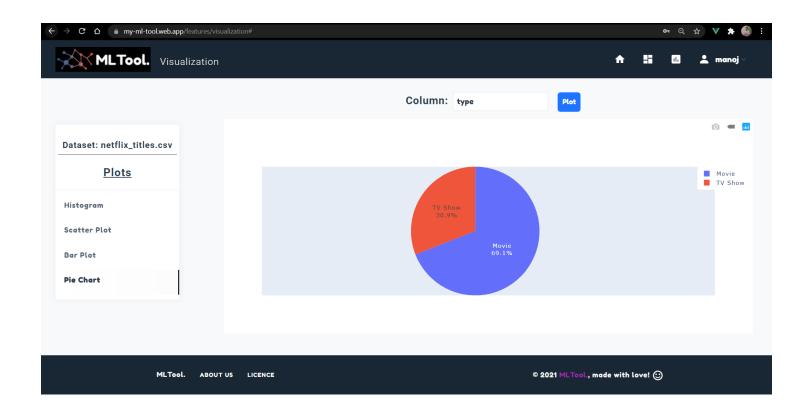
#### **Dataset Visualization:**

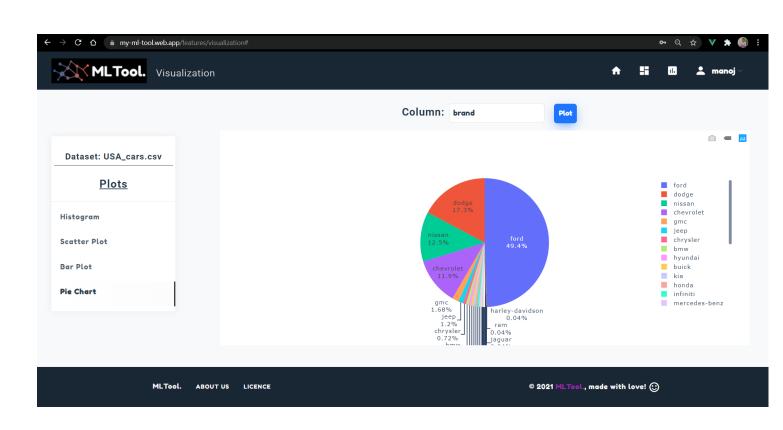


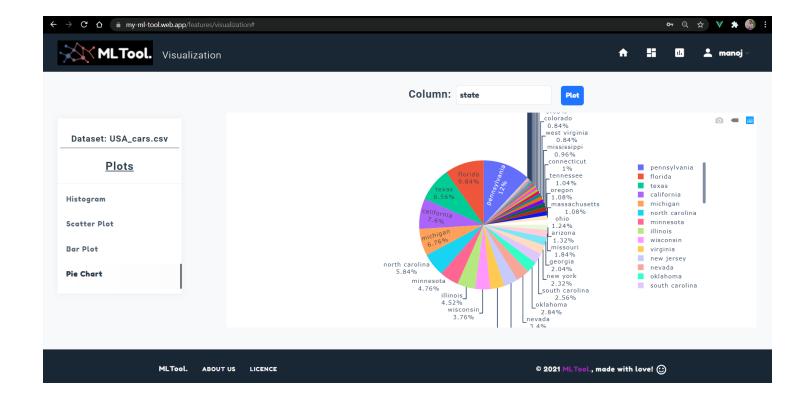




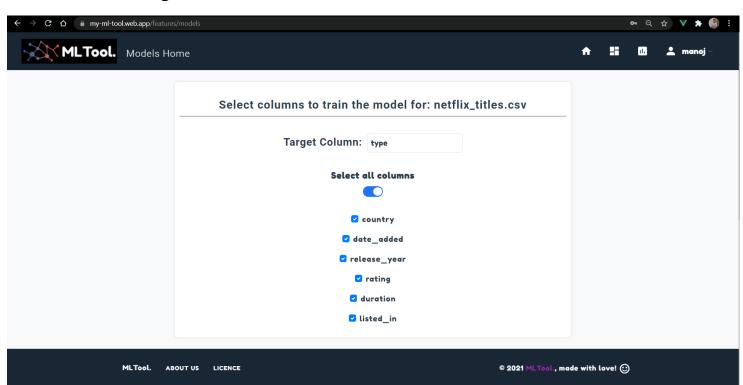


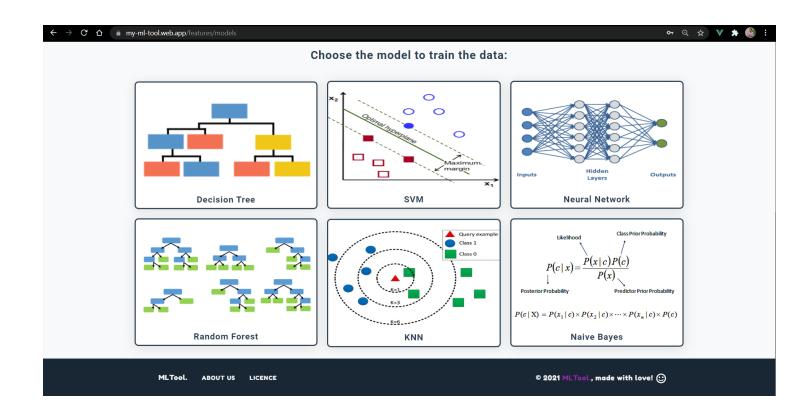


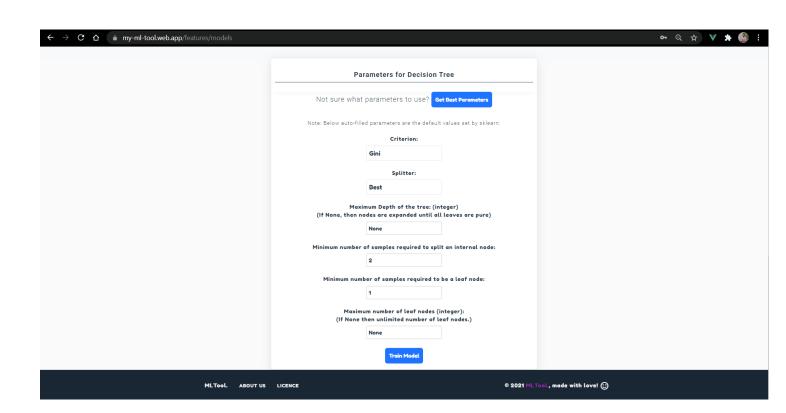




#### ML Model Training:

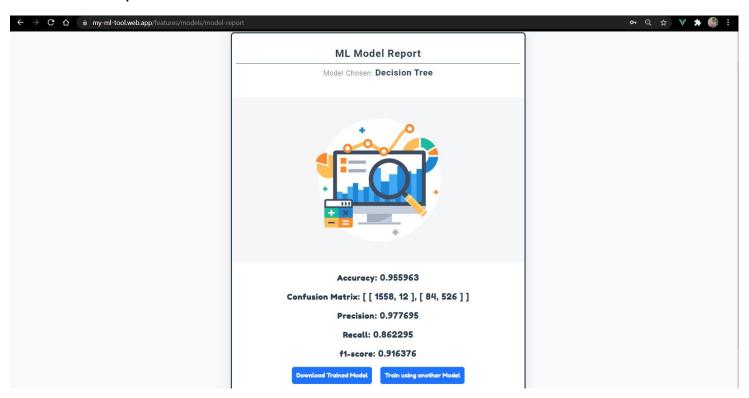


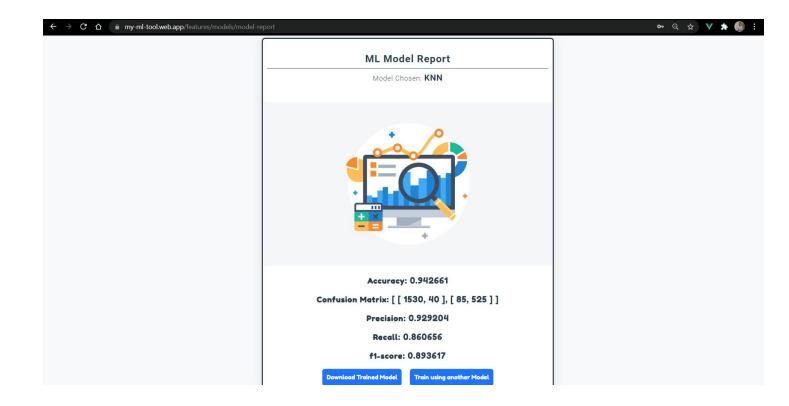




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	Parameters for KNN				
	Not sure what	parameters to use?	et Best Parameters		
	Note: Below auto-fille	d parameters are the default	values set by sklearn.		
		Number of neighbors (k):			
		5			
		Weights:			
		Uniform			
		Algorithm:			
		Auto			
		Leaf size:			
		30			
		Power parameter:			
		2			
		Train Model			
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# ML Model Report:





## Watch the full demo of the application here:

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