Preparing Machine Learning Dataset

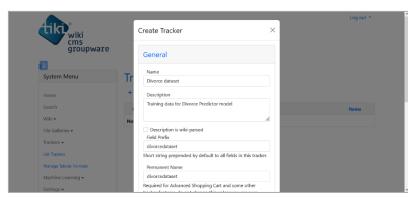
Preparing dataset in Tiki involves creating a new Tiki tracker and adding items to it or using an existing tracker and making any necessary modifications to it. This is an important step because using Machine Learning models to make predictions require the models to be trained beforehand on already existing data. Trackers in Tiki are used for this purpose because of the ease in working with data contained in them just within Tiki, eliminating the need for special tools.

Creating Dataset

You create a dataset in Tiki by simply creating a tracker. Do this by going to the **List Trackers** page, click on the **Create** button and fill in the **Create tracker** form like you would for every other tracker.

				Log out 🝷
wiki				
cms groupware	2			
System Menu	Trackers	×		
	+ Create 1 Impo		Formats	
Home	- Create	int · i= manage labula	Formats	
Search	Id Name	Created 🗸	Last modified	Items
Wiki 🕶	No records found.			
File Galleries 🕶				
Trackers 🔻				
List Trackers				
Manage Tabular Formats				
Machine Learning 🔻				
Settings 🕶				

Use the create button on List Trackers page to create a tracker



Fill in the Create tracker form

Give it a name and a concise description and save; then add fields to the tracker to match your dataset attributes. That is, you add a field for every dataset attribute.

wiki cms groupware										Log out 🝷
5ystem Menu			er Fields:							
Home	(+/	Add Fie	ld 🏦 Import Fields	🖌 Properties 🛛 🖽	Fields 🗧	Track	ers 🖽 I	Items		
Search		ID	Name	Туре	List	Title	Search	Public	Mandatory	Actions
Wiki 🕶 File Galleries 🕶		1	Q1 divorcedatasetQ1	Numeric						×
Trackers • Machine Learning •		2	Q2 divorcedatasetQ2	Numeric						×
Settings •		3	Q3 divorcedatasetQ3	Numeric						×
		4	Q4 divorcedatasetQ4	Numeric	v			2		×

Add a tracker field by clicking on the Add Field button

tiki	Add Field	×				Log out *
cms groupware	Name					
System Menu	Tr _{Туре}		0			
Home	+ Text Field	~	rs i≡	Items		
Search	More types available	×	Search	Public	Mandatory	Actions
Wiki 🕶 File Galleries 🕶	More field types may be enabled from the administration panel.					×
Trackers 🕶	Description					×
Machine Learning • Settings •			•			×
	Description contains wiki syntax	li.				×

Add new field form

The tracker field type you choose will depend on the attribute type. Tracker Field Types has a list of available Tiki Tracker field types. Do not use multi-value field types like Checkbox Tracker Field. Only use single-value field types such as Text Tracker Field. Use Numeric Tracker Field for all continuous attributes.

Note that the field types you choose will directly affect the user experience during model use. For categorical attributes, consider using field types like Dropdown Tracker Field or Radio Tracker Field to ease user input during usage.

See Creating a Tracker for more information on creating trackers. To learn how to add fields to a tracker, see Adding fields to a tracker.

Adding Samples to Dataset

In Tiki, each tracker item represent a sample. You add dataset samples by adding items to the tracker. A simple way to do this is to use the **Create Item** form displayed after clicking on the **Create Item** button in the view tracker page.

																			Lo	og out	•
wiki																					
groupwar	е																				
System Menu		Divo	orc	e	da	ta	se	t													
Home	Tra	ining da	ita for	Divore	ce Pres	tictor r	nodel														
		+ Creat	e Iten		🗲 Pro	opertie	es l	🖪 Fie	lds	81	iracke	rs									÷
Search		-	_																		
Wiki 🕶	It	em	s 🖪	150																	
File Galleries 🕶		CIII		150																	
Trackers 🕶																					
Machine Learning 🗸			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q 8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q
Settings -	1		2	2	4	1	0	0	0	0	0	0	1	0	1	1	0	1	0	0	
	1		4	4	4	4	4	0	0	4	4	4	4	3	4	0	4	4	4	4	
		•			2			3									3				

Click on Create Item button to add tracker item

Image: System Menu O System Menu O Home Image: Signature Home Image: Signature Image: Signature Image: Signature	
System Menu D System Menu D Home 2 Search Throw we can ignore our difference, even if things get hard sometimes. Wai = Its Trackers = Uther we can ignore our discussion with my spourd from the	
System Menu U Home Image: Search Search Image: Search Wiki = Image: Search Wiki = Image: Search Trice Callerise = Image: Search Trice Callerise = Image: Search Trackers = When we need if, we can take our discussions with my spoure from the	
Home Train Search It how we can ignore our differences, even if things get hard sometimes. (1-5) E.p. 5. Wilki * It File Galleries * It Tankers * When we need it, we can take our discussions with my spouw from the	
Starch I know we can ignore our digferences, even if things get hand sometimes. (1-5) Ep. 5. Wiki • Itte Calleries • Itte Office our discussion with my spoure from the Office our discussion with my spoure from the	
Search Provide an algebrace, even groups and algebrace, even groups and algebrace, even groups and anothine. 15 Eq. 5. Weil = Ite 9. Tackers = When we need it, we can take on discussion with my spoure from the	
File Galleries + Ite Tackers + When we need it, we can take our discussions with my spoure from the	
File Galleries + Trackers + When we need it, we can take our discussions with my spouse from the	
beginning and correct it. (1-5) Eg. 2. 2 Q13 Q14 Q15 Q16 Q17 Q18 Q1	
Settings * Q4	
When I discuss with my spouse, to contact him will eventually work. (1-5) 3 4 0 4 4 4 4 E.g. 2.	
× 4 2 3 3 3 3 3	

Samples can also be collected from user input if the dataset tracker is embedded in a wiki, article or blog page using PluginTracker.

Importing Samples

If dataset already exist in an external source such as a Comma-Separated Values (CSV) file, you can import samples from it to a tracker in Tiki using Tracker Import Export for this. Say you are working on Divorce Prediction project, you can download the project's dataset into your computer, then using Tracker Tabular in Tiki, import the samples into a tracker.

•			
			Log out 🝷
wiki			
cms groupware	۵		
	-		
E>			
System Menu	Tabular Formats		
Home	+ New 💁 Create Tracker from File	E Trackers	
Search	Name	Tracker	
Wiki 🕶	Divorce dataset TT	Divorce dataset	×
File Galleries 🕶			
Trackers -			
List Trackers			
Manage Tabular Formats			
Machine Learning 🕶			
Settings -			

Tracker Tabular list



Use the Import button to import items into tracker

See Tracker Import Export to learn how to import tracker items using Tracker Tabular.

Related links

- Machine Learning
- Creating Machine Learning Models
- Configuring Machine Learning Models
- Training Machine Learning Models
- Using Machine Learning Models
- Trackers
- Tracker Field Types
- https://github.com/RubixML/Divorce