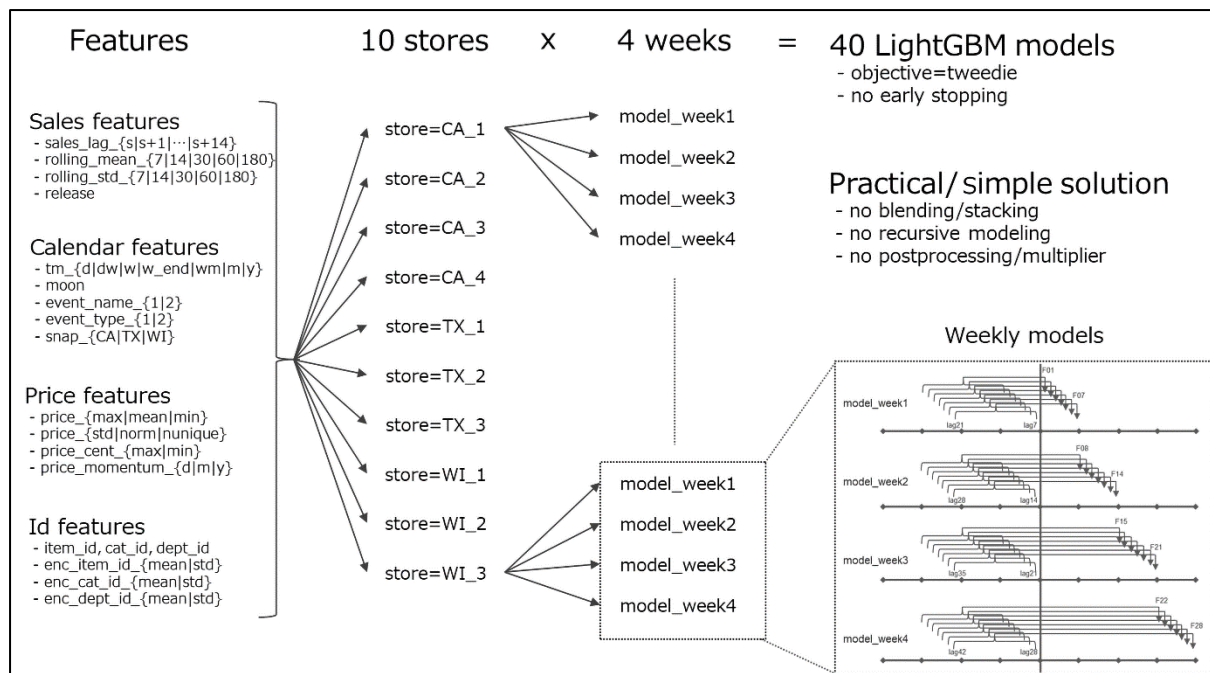


## Chapter 2: The Makridakis Competitions - M5 on Kaggle for Accuracy and Uncertainty

	id	item_id	dept_id	cat_id	store_id	state_id	d_1	d_2	d_3	d_4	...	d_1932	d_1933	d_1934	d_1935	d_1936	d_1937	d_1938	d_1939	d_1940	d_1941
0	HOBBIES_1_001_CA_1_evaluation	HOBBIES_1_001	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	2	4	0	0	0	0	3	3	0	1
1	HOBBIES_1_002_CA_1_evaluation	HOBBIES_1_002	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	0	1	2	1	1	0	0	0	0	0
2	HOBBIES_1_003_CA_1_evaluation	HOBBIES_1_003	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	1	0	2	0	0	0	2	3	0	1
3	HOBBIES_1_004_CA_1_evaluation	HOBBIES_1_004	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	1	1	0	4	0	1	3	0	2	6
4	HOBBIES_1_005_CA_1_evaluation	HOBBIES_1_005	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	0	0	0	2	1	0	0	2	1	0

	store_id	item_id	wm_yr_wk	sell_price
0	CA_1	HOBBIES_1_001	11325	9.58
1	CA_1	HOBBIES_1_001	11326	9.58
2	CA_1	HOBBIES_1_001	11327	8.26
3	CA_1	HOBBIES_1_001	11328	8.26
4	CA_1	HOBBIES_1_001	11329	8.26

	date	wm_yr_wk	weekday	wday	month	year	d	event_name_1	event_type_1	event_name_2	event_type_2	snap_CA	snap_TX	snap_WI
0	2011-01-29	11101	Saturday	1	1	2011	d_1	NaN	NaN	NaN	NaN	0	0	0
1	2011-01-30	11101	Sunday	2	1	2011	d_2	NaN	NaN	NaN	NaN	0	0	0
2	2011-01-31	11101	Monday	3	1	2011	d_3	NaN	NaN	NaN	NaN	0	0	0
3	2011-02-01	11101	Tuesday	4	2	2011	d_4	NaN	NaN	NaN	NaN	1	1	0
4	2011-02-02	11101	Wednesday	5	2	2011	d_5	NaN	NaN	NaN	NaN	1	0	1



```
train_df.head()
```

	id	item_id	dept_id	cat_id	store_id	state_id	d_1	d_2	d_3	d_4	...	d_1932	d_1933	d_1934	d_1935	d_1936	d_1937	d_1938	d_1939	d_1940	d_1941
0	HOBBIES_1_001_CA_1_evaluation	HOBBIES_1_001	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	2	4	0	0	0	0	3	3	0	1
1	HOBBIES_1_002_CA_1_evaluation	HOBBIES_1_002	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	0	1	2	1	1	0	0	0	0	0
2	HOBBIES_1_003_CA_1_evaluation	HOBBIES_1_003	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	1	0	2	0	0	0	2	3	0	1
3	HOBBIES_1_004_CA_1_evaluation	HOBBIES_1_004	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	1	1	0	4	0	1	3	0	2	6
4	HOBBIES_1_005_CA_1_evaluation	HOBBIES_1_005	HOBBIES_1	HOBBIES	CA_1	CA	0	0	0	0	...	0	0	0	2	1	0	0	2	1	0

5 rows x 1947 columns

```
grid_df.head()
```

	id	item_id	dept_id	cat_id	store_id	state_id	d	sales	release
0	HOBBIES_1_001_CA_1_evaluation	HOBBIES_1_001	HOBBIES_1	HOBBIES	CA_1	CA	1	0.0	224
1	HOBBIES_1_002_CA_1_evaluation	HOBBIES_1_002	HOBBIES_1	HOBBIES	CA_1	CA	1	0.0	20
2	HOBBIES_1_003_CA_1_evaluation	HOBBIES_1_003	HOBBIES_1	HOBBIES	CA_1	CA	1	0.0	300
3	HOBBIES_1_004_CA_1_evaluation	HOBBIES_1_004	HOBBIES_1	HOBBIES	CA_1	CA	1	0.0	5
4	HOBBIES_1_005_CA_1_evaluation	HOBBIES_1_005	HOBBIES_1	HOBBIES	CA_1	CA	1	0.0	16

## Chapter 3: Vision Competition: Cassava Leaf Disease Competition

### Dataset Description

Can you identify a problem with a cassava plant using a photo from a relatively inexpensive camera? This competition will challenge you to distinguish between several diseases that cause material harm to the food supply of many African countries. In some cases the main remedy is to burn the infected plants to prevent further spread, which can make a rapid automated turnaround quite useful to the farmers.

### Files

**[train/test]\_images** the image files. The full set of test images will only be available to your notebook when it is submitted for scoring. Expect to see roughly 15,000 images in the test set.

#### **train.csv**

- `image_id` the image file name.
- `label` the ID code for the disease.

**sample\_submission.csv** A properly formatted sample submission, given the disclosed test set content.

- `image_id` the image file name.
- `label` the predicted ID code for the disease.

**[train/test]\_tfrecords** the image files in tfrecord format.

**label\_num\_to\_disease\_map.json** The mapping between each disease code and the real disease name.

## Chapter 4: NLP Competition – Google Quest Q&A Labeling

question_title	question_body	question_user_name	question_user_page	answer
What am I losing when using extension tubes in...	After playing around with macro photography on...	ysap	<a href="https://photo.stackexchange.com/users/1024">https://photo.stackexchange.com/users/1024</a>	I just got extension tubes, so here's the skin...
What is the distinction between a city and a s...	I am trying to understand what kinds of places...	russellpierce	<a href="https://rpg.stackexchange.com/users/8774">https://rpg.stackexchange.com/users/8774</a>	It might be helpful to look into the definitio...
Maximum protusion length for through-hole comp...	I'm working on a PCB that has through-hole com...	Joe Baker	<a href="https://electronics.stackexchange.com/users/10157">https://electronics.stackexchange.com/users/10157</a>	Do you even need grooves? We make several pro...
Can an affidavit be used in Beit Din?	An affidavit, from what i understand, is basic...	Scimonster	<a href="https://judaism.stackexchange.com/users/5151">https://judaism.stackexchange.com/users/5151</a>	Sending an "affdavit" it is a dispute between...