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Getting Started

- Sign up for a Kaggle account https://www.kaggle.com
- Go to competition link https://www.kaggle.com/t/85d5f53d2a0244a7bf1283be7381849d
- (optional) sign up for the Hawaii ML Meetup https://www.meetup.com/Hawaii-Machine-Learning/
- (optional) get an invite to the Hawaii ML Slack send an email to hawaiimachinelearning@gmail.com

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Competition Details – Task

Predict the quantity of items sold in online retail transactions.

- You're given some sales data
- From the data, predict the number items sold in a transaction
- You are evaluated on how well your predictions match reality
- Whoever's predictions are closest to reality wins!



Competition Details – Dataset

- Real data from online retail transactions
- Data is anonymized to discourage cheating
- Training set (with quantity) / test set (without quantity)

id - an anonymous id unique to a
transaction
date - date of the purchase
time - time of the purchase
invoice_id - the id of an invoice
stock_id - id of a stock
customer_id - id of a customer

country - the country the item(s)
was purchased in

description - text describing the
item(s) purchased
unit_price - price for each item
quantity - total quantity purchased
during the transaction

Competition Details – Dataset

id	date	time	invoice_id	stock_id	customer_	country	description	unit_price	quantity
330477	8/30/2011	12:26	357	198	7	united kingdom	french blue metal door sign 3	2.46	1
113814	11/1/2011	14:54	6757	2747	410	united kingdom	paper lantern 9 point deluxe star	6.65	4
51510	7/11/2011	16:21	52	755	7	united kingdom	fruit salad bag charm	2.46	1
257784	10/11/2011	14:52	3642	1942	1722	france	set of 10 led dolly lights	6.25	2
431803	11/14/2011	14:59	2105	39	1159	united kingdom	glitter christmas star	0.39	5
473125	12/3/2010	11:35	1768	506	1009	united kingdom	set 20 napkins fairy cakes design	0.85	1
223094	11/15/2011	17:00	779	1295	7	united kingdom	gingham heart decoration	1.63	3
314901	10/31/2011	14:09	404	923	13	united kingdom	calendar paper cut design	5.79	1
377668	11/7/2011	11:55	13526	251	1829	united kingdom	ivory knitted mug cosy	1.65	6
238904	7/5/2011	12:15	2319	2789	773	united kingdom	mirrored wall art gents	0.75	1
477169	2/7/2011	11:56	7553	3455	596	united kingdom	carousel ponies baby bib	1.25	1
70332	7/22/2011	9:20	997	2880	7	united kingdom	candy spot heart decoration	0.83	3
190264	9/23/2011	15:17	11229	260	3397	united kingdom	biscuit tin vintage christmas	2.89	6

Competition Details – Evaluation Metric

- Participants are ranked on how well they can predict test data
- Test data is split into public and private
- Evaluation metric is Root Mean Squared Log Error (RMSLE)

$$\sqrt{\frac{1}{n} \sum_{i=1}^{n} (\log(p_i + 1) - \log(a_i + 1))^2},$$

Competition Details – Rules

- Participants can submit up to 5 submissions per day. Participants will be allowed to submit 2 submissions for evaluation on the test set.
- Private sharing of information is not allowed. If in doubt, post to the discussions forum https://www.kaggle.com/c/hawaiiml0/discussion
- Multiple accounts are not allowed.

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Kernels

- Use Google's resources to run your code.
- Share your work with the community using Kaggle kernels.
- All public kernels will be <u>subjectively</u> evaluated a panel of judges using the following criteria:
 - *Originality* does the kernel contain original material
 - *Helpfulness* does the kernel provide valuable information for the task at hand, number of upvotes is one measure of helpfulness
 - Correctness are the technical details of the kernel correct

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Prizes (contingent on funding)

Top 3 teams with the lowest test RMSLE will be awarded

- First Prize: (\$100)
- Second Prize: (\$50)
- Third Prize: (\$25)

Winner of the Best Kernel will receive (\$25)

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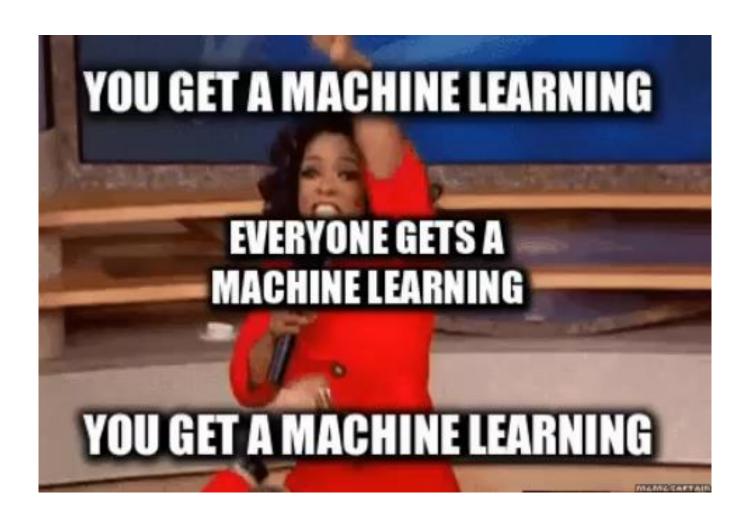
Timeline

Event	Date	Description
Start	Week 0, March 30 (Friday)	introduction, explain rules, form teams
Tutorial 1	Week 1, April 2 (Monday)	EDA and feature engineering
Tutorial 2	Week 2, April 9 (Monday)	training and prediction
Tutorial 3	Week 3, April 16 (Monday)	cross validation and model selection
Tutorial 4	Week 4, April 23 (Monday)	ensembling and blending
Finish	Week 5a, April 30 (Monday)	no new submissions allowed
Wrap-up	Week 5b, May 4 (Friday)	award prizes, discuss solutions

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You're All Winners!



You're All Winners!

Except for Cheaters!

