

From Group to Instance Labels, using Deep Features

Dimitrios Kotzias^{¢*}, Misha Denil^{*}, Nando de Freitas^{*}, Padhraic Smyth[◊]

UCIrvine AI/ML Seminar



Oniversity of California, Irvine *University of Oxford



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Index 76 reviews in total

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- Instance Prediction
 - eg: Patrini et al., 2014, Yu et al., 2013

Aggregation Function





Average: e.g. Xu and Frank, 2004, Foulds et. al., 2010

 How can we transfer knowledge about groups, to the instances comprising them?



 How can we transfer knowledge about groups, to the instances comprising them?



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 - Reviews
 - Image Recognition



water boat



sky water rock



water rock sky trees



boat (X_{12})

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 - Spotify

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 Songs Albums 	UTRAVIOLENCE 🕞	PLAY	FOLLOWERS 0	
ন • Artists			Available Offline	
	SONG	ARTIST	بالعلم	
PLAYLISTS	+ Two Moons	toe	2014-06-12	
 Riding/snowboarding Snowboarding by Eric 	+ Your Hand In Mine	Explosions In The Sky	2014-06-12	
♫ Snowboarding playlis	+ In Illusions Of Order	Red Sparowes	2014-06-16	
Snowboarding/wakeb	+ West Coast	Lana Del Rey	2014-06-19	
Kyle's Dubstep by Mos	+ Soul Vibration	J-Walk	2014-06-19	
☐ rock_stuff	+ Get A Move On!	Mr. Scruff	2014-06-19	
+ New Playlist	+ Masollan	Balmorhea	2015-02-05	
Two Moons +	+ Anything You Synthesize - A	mbient The American Dollar	2015-02-05	


























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 $J(\theta) = Instance Cost + Group Cost$

Instance
$$Cost = \frac{1}{N^2} \sum_{i=1}^{N} \sum_{j=1}^{N} \mathcal{K}(\mathbf{x}_i, \mathbf{x}_j) \Delta_1\left(\hat{y}_i, \hat{y}_j\right)$$

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scores of instances i,j

Group Cost = $\frac{\lambda}{K} \sum_{k=1}^{K} \Delta_2(\hat{\ell}_k, \ell_k)$

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 λ : balance between two objectives

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Regularizers

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$$\hat{\ell_k} = \mathcal{A}(\mathcal{G}_k, \boldsymbol{\theta}) = \frac{1}{|\mathcal{G}_k|} \sum_{i \in \mathcal{G}_k} \hat{y}_{\boldsymbol{\theta}}(\mathbf{x}_i)$$

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 $\mathbf{x}_i \operatorname{BOW?}$

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Application in Text

X_i Deep Learning

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- Training: Optimise through gradient descent
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- Use mini-batch gradient descent

Experiments - Datasets

• 50,000 imdb movie reviews Maas et al 2011



• 70,000 Amazon reviews McAuley and Leskovec 2013

- amazon
- 600,000 Yelp restaurant reviews Yelp Dataset Challenge 2015
- yelp
- Instance and Group Evaluation

 hand label 1000 random sentences from each dataset

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 - Stanford Sentiment Analysis Tool

Instance Level Accuracy

	Amazon	IMDb	Yelp
Logistic w/ BOW	79.0%	76.2%	75.1%
Logistic w/ Embeddings	54.3%	57.9%	66.5%
Proposed Method	88.2%	86.0%	86.3%



Instance Level





Group Level Accuracy

		Accuracy			AUC	
	Amazon	IMDb	Yelp	Amazon	IMDb	Yelp
Logistic w/ BOW	85.8%	86.20%	91.25%	88.08%	88.32%	94.41%
Logistic w/ Embeddin gs	67.82%	58.23%	81.00%	61.24%	60.77%	82.59%
Proposed Method	92.8%	88.56%	88.73%	91.73%	88.36%	92.36%

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Mon	11:00 am -		
	10:00 pm		
Tue	11:00 am -		
	10:00 pm		
Wed	11:00 am -	Closed now	
	10:00 pm		
Thu	11:00 am -		
	10:00 pm		
Fri	11:00 am -		
	10:30 pm		
Sat	8:00 am -		
	11:00 pm		
Sun	8:00 am -		
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Edit business info			
Menu			
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General framework for transferring group labels to instances

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- Utilizes instance similarity and any aggregation function (but assumes one is known)
- Future applications to be explored
- Extensions : other classifiers, different data types...

Thank You

Questions?

don't bother.

the employees are the worst.

it's quite sad actually because the espresso drinks are out of this world, amazing.

still, i won't be back.



There is only 1 good thing about this place.

The decoration of the place was very artsy.

It made me felt like I was in a fish bowl or something, I felt I was trapped in some sort of container.

It was weird, but very interesting at the same time.

The food was not as good as I thought it was going to be.

As you enter the restaurant, you would notice a few chefs working at the bar making fresh noodles or some dim sum.

However, after ordering a bowl of braised beef noodle soup, I wasn't able to tell the difference between package noodles and the fresh hand made ones.

The soup base was a very plain beef soup, nothing special about it.

The braised beef was juicy, (probably from sitting in the soup for so long) but it was flavorless and there were no sauce that accompany my order to improve the taste

The price was extremely over price, especially for the quality of our food.

My noodle soup was a small size and it was about \$16.

If the food was a lot better and if the waiters pay more attention to us, it would of *POSSIBLY* been worth the money.

I also ordered a cocktail, (Shang Hai Wave) it was very delicious, but it was about \$12.

It had a strong lychee flavor which was delicious and it has a sweet finish. DON'T EAT HERE.

Reasons why:

- Food was way over priced
- Service was not extraordinary
- Quality of food was deceiving