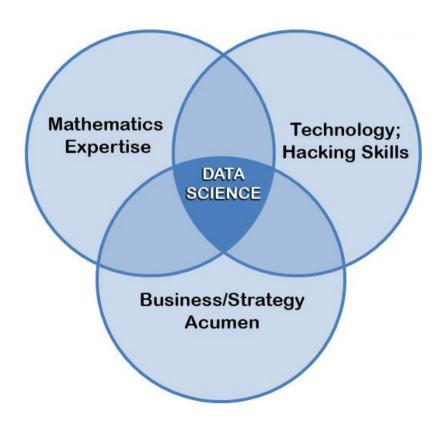
COMPETITION DETAILS

Dr Pan Yaozhang

23 February 2019

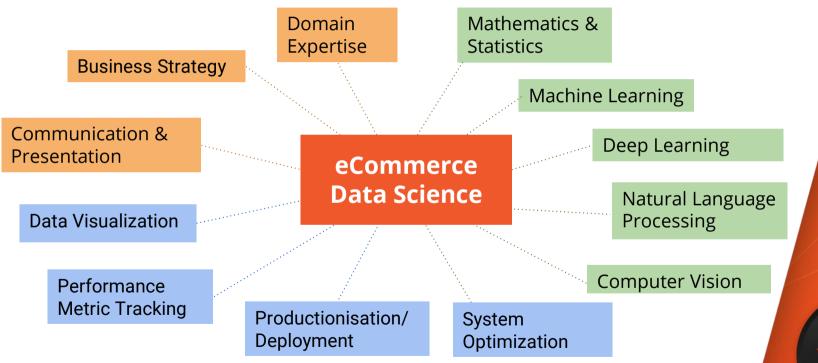


What is Data Science?





Data Science at Shopee





Mission of Data Science at Shopee

- Drive Shopee towards big data driven business by using best practices of Al technology
- Serve our customers better using Data Science



Challenge that Shopee faces

One fundamental challenge is to accurately extract relevant product information from the large volume of products uploaded to our platform, so as to:

- Make relevant products easily discoverable through search engine and recommendation
- Improve customer experience by providing comprehensive and accurate product information



Our Problem: Product Information Extraction in the Wild

Through this competition, we hope to inspire participants to build Data Science solutions with:

- Computer vision
- **Natural language processing**
- Real world, hands-on experiences
- A creative mindset



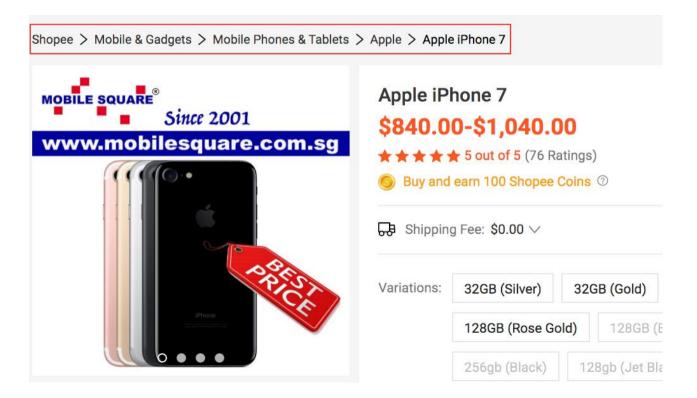
Beginner Category: Product Category Classification

Participants are required to determine the category of a product given its image and title





The Application: Category Recommendation





Advanced Category:Product Information Extraction

Participants are required to

detect the brand, model, and other attributes





The Application: Attribute Tagging

Each product has several attributes that can provide detailed and rich information about the product



Apple iPhone X, Fully Unlocked 5.8", 64 GB - Silver

Brand: Apple

Type: Iphone X

Screen Size: 5.8"

Memory Size: 64 GB

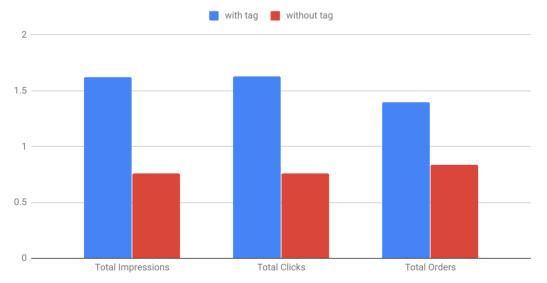
Color: Silver

Fig 1 Attributes for Iphone



Why Attribute Tagging is Important

Low visibility without stock keeping unit (SKU) attribute tagging results in **low conversion**



Compare Visibility of Products with and without attribute tagging



Our Data

The **product diversity** in Shopee is huge

In NDSC 2019, we select the data from three representative and prevalent product categories: **Fashion**, **Beauty**, **and Mobile**



Data Format

Training Data:

- itemid the serial id of the item
- title name of the item
- image_path path for getting the product image
- category- category of the item (for beginner category)
- attribute type1, attribute type 2, ... (for advanced category)

Testing Data:

- itemid
- title
- image_path



Submission Requirements

All submissions must follow the same directory structure and result format:

- Experiment Result
- Source code
- Supplementary Material



How to do well in the NDSC 2019?

- 1. Deep understanding of the **e-Commerce** business
- 2. Good **research ability** and familiarity with **advanced scientific methods** such as Natural Language Processing, Computer Vision etc
- 3. Good **engineering capability** in order to convert the scientific methods into program and system



Thank You & All the Best!

