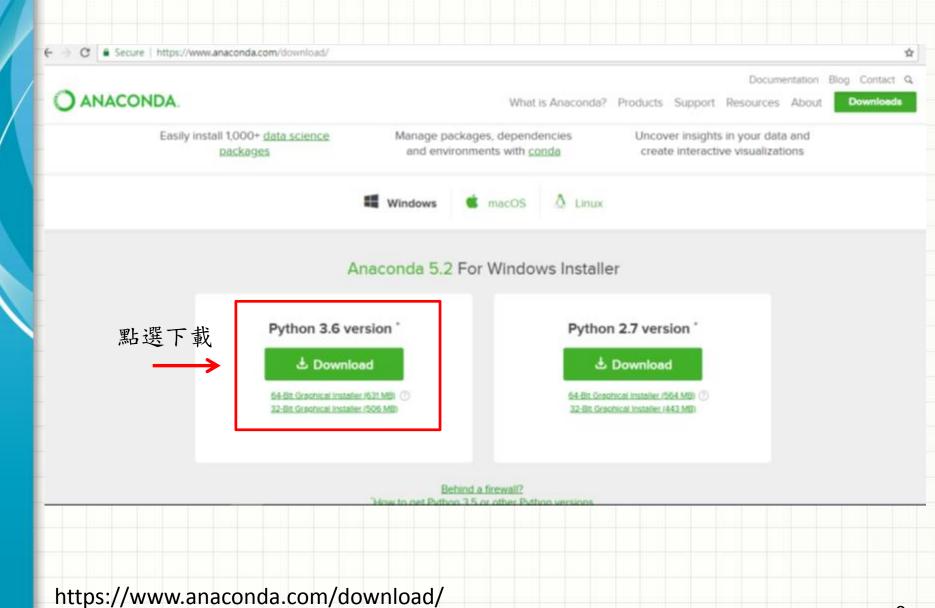
Python for Data Analysis 基礎知識

講者:楊翔斌

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大綱

- 1. python(anaconda)安裝介紹
- 2. 套件使用
- 3. 介面使用
- 4. 小結
- 5. 相關資源介紹



3

O Anaconda3 5.2.0 (64-bit) Setup



Select Installation Type

Please select the type of installation you would like to perform for Anaconda3 5.2.0 (64-bit).

Install for:



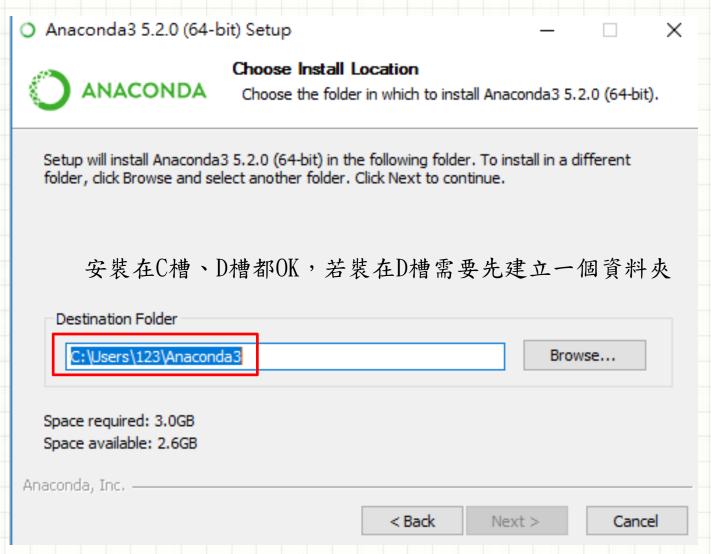
All Users (requires admin privileges)

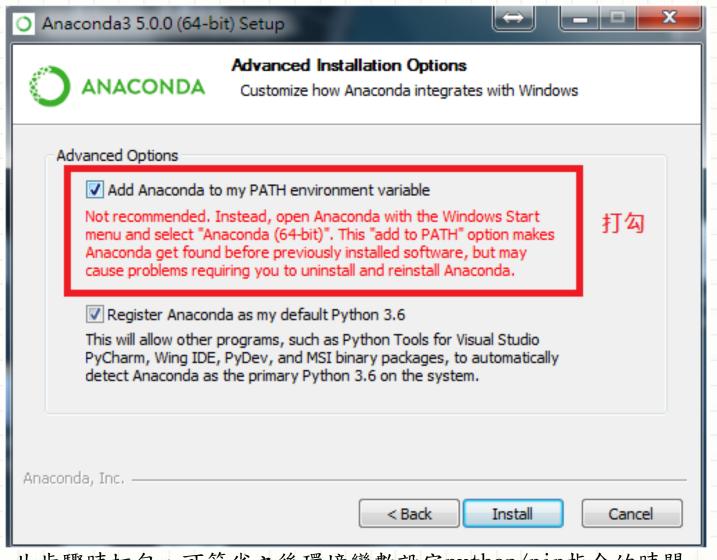
Anaconda, Inc.

< <u>B</u>ack

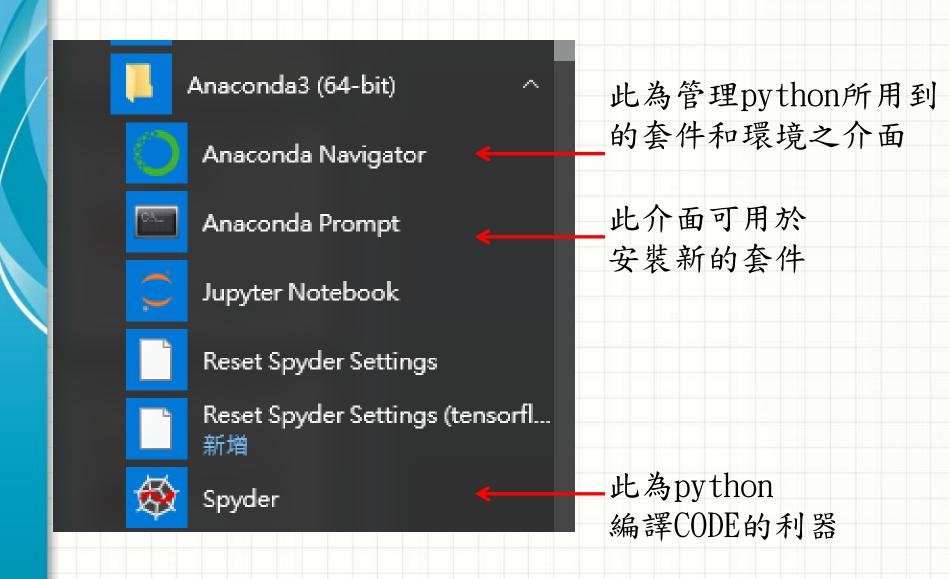
Next >

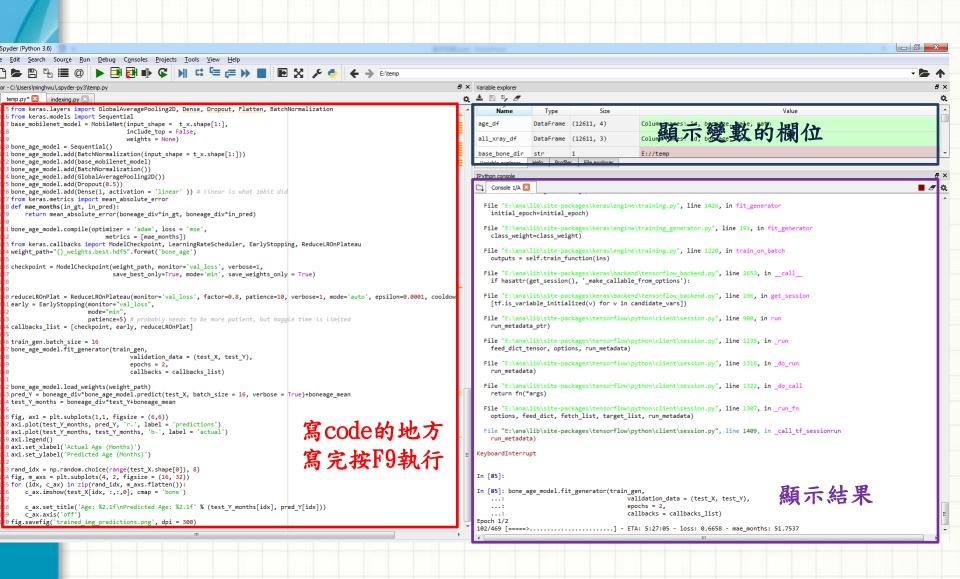
Cancel



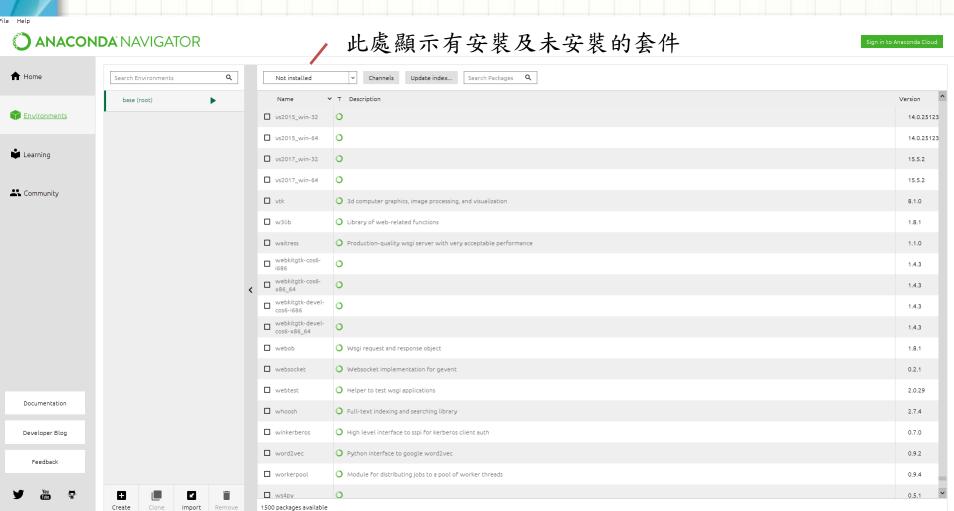


此步驟時打勾,可節省之後環境變數設定python/pip指令的時間



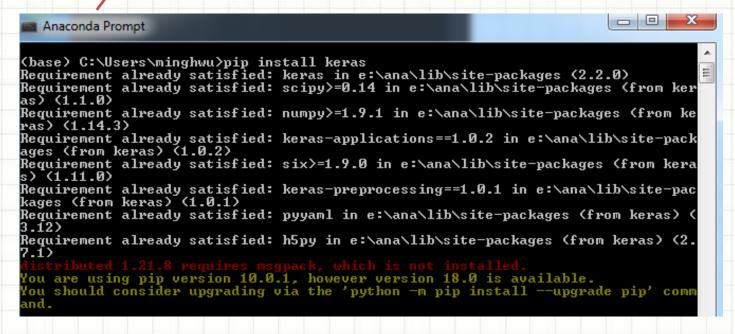


ANACONDA NAVIGATOR的介面



若要安裝全新的套件?

進入Anaconda Prompt,輸入pip install XXX,XXX為套件名



常用的套件:

- 圖片相關
 - ❖ PIL(可視為套件的套件)
- 科學計算&資料分析
 - ❖ numpy(太常用∑☆)
 - \Leftrightarrow matplotlib($\Sigma \Leftrightarrow$)
 - \Rightarrow pandas($\Sigma \Leftrightarrow$)
 - \Leftrightarrow scikit-learn($\Sigma \updownarrow$)
 - * sklearn
- 深度學習
 - * tensorflow
 - * keras

如何使用?

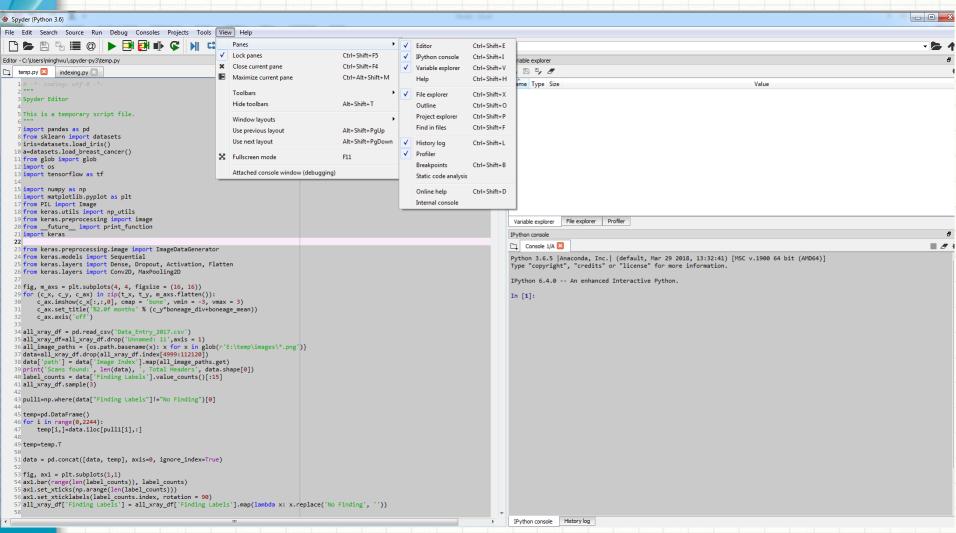
```
法一:
import PIL

im = PIL.Image.open('p7(1).jpg')
.表示
PIL再呼
叫函式open
叫套件
Image
```

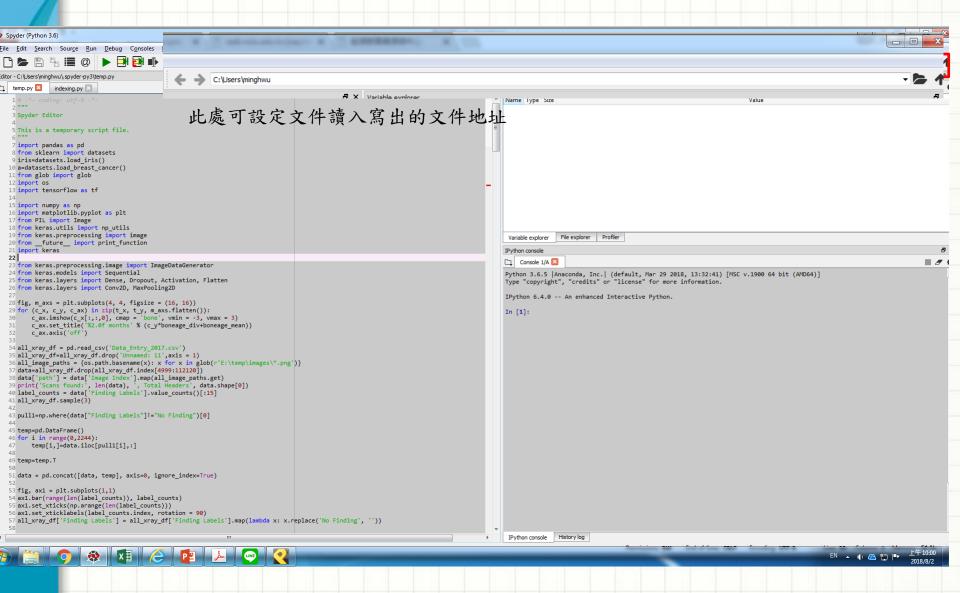
import pandas as pd — 載入pandas套件並簡寫成pd import numpy as np

介面使用

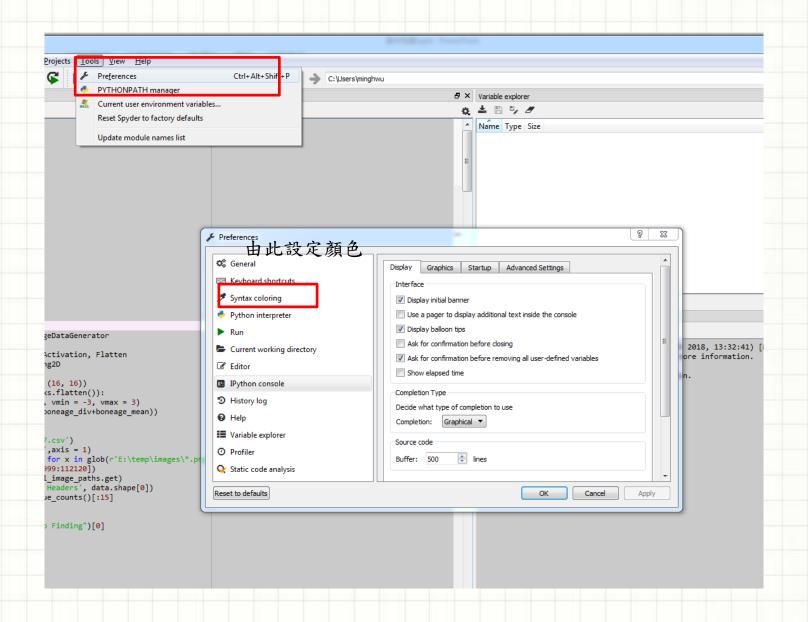
從View → Panes 可選取各種介面



介面使用



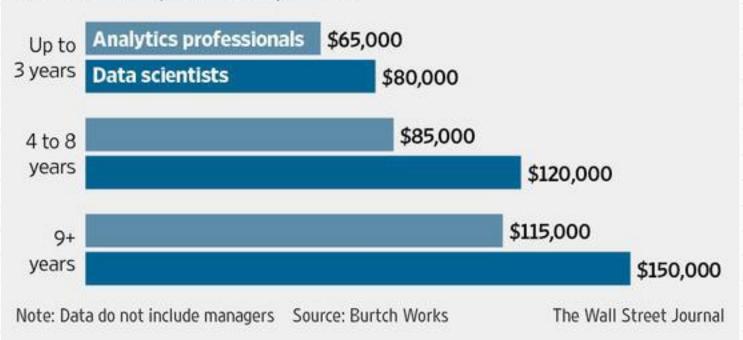
介面使用





Big Data, Big Paycheck

Median salary for analytics professionals and those specifically within data science, by level of experience.





About data scientist

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE



hen Jonach in 50 dman arrived for work in June 2006 at LinkedIn, the business networking site, the place still felt like a stalt-up. The company had just under 8 million accounts, and the number was growing quickly as existing men by remyited their friends and colleagues to join. But users weren't seeking out connections with the people who were already on the site at the rate executives had expected. Something was apparently missing in the social experience. As one LinkedIn manager putit, "It was like arriving at a conference reception and realizing you don't know anyone. So you just stand in the corner sit ping your drink—and you probably leave early." Goldman, a PhD in physics from Stanford, was intrigued by the linking he d'id see going on and by the richness of the user profiles. It all made for messy data and unwieldy analysis, but as he began exploring people's connections, he started to see possibilities. He began forming theories, testing hunches, and finding patterns that allowed him to predict whose networks a given profile would land in. He could imagine that new features capitalizing on the leuristics he was developing might provide value to users. But LinkedIn's engineering team, caught up in the challenges of scaling up the site, seemed uninterested. Some colleagues were openly dismissive of Goldman's ideas. Why would use a leeds linkedIn to figure out their networks for them? The site already had an address book importer that could pull in all a nember of connections.

Luckily, Reid Hoffman, LinkedIn's cofounder and CEO at the time (now its executive chairman), had faith in the power of analytics because of his experiences at PayPal, and he had granted Goldman a high degree of autonomy. For one thing, he had given Goldman a way to circumvent the traditional product release cycle by publishing small modules in the form of ads on the site's most popular pages.

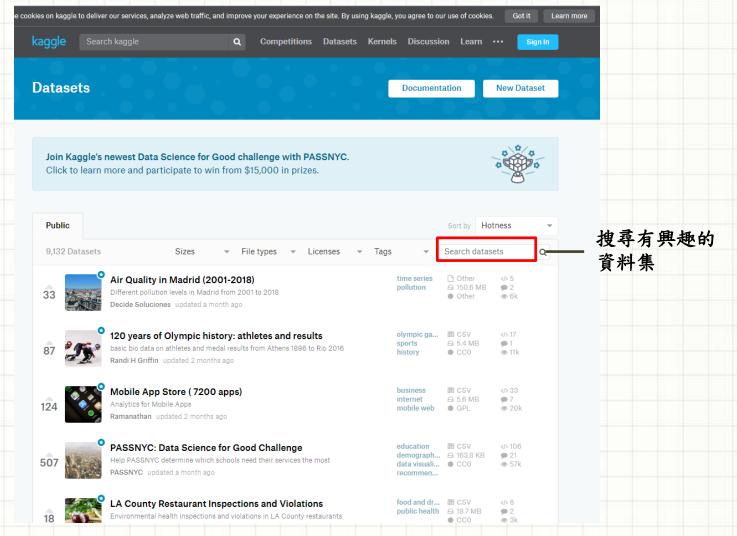
小結

但日理萬機的我們要從何開始?

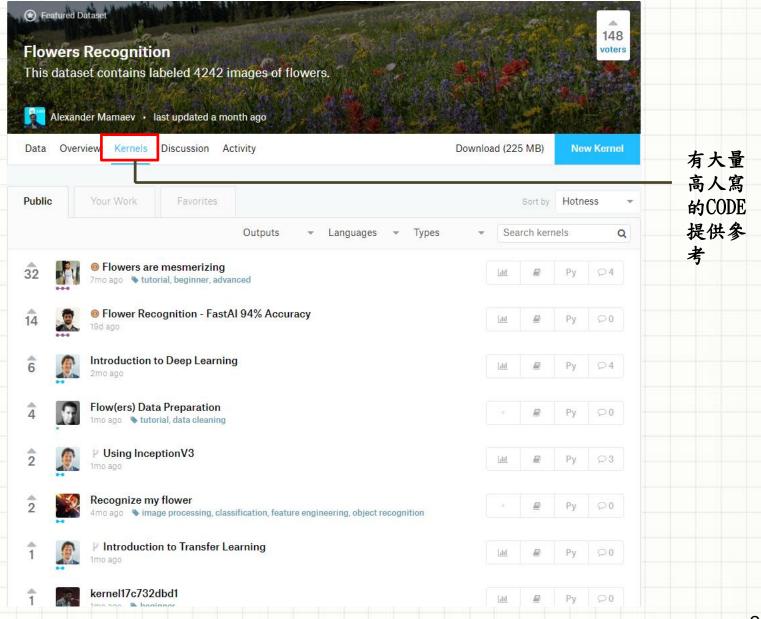
Ctrl C

Ctrl V

Kaggle



https://www.kaggle.com/datasets





Center for Machine Learning and Intelligent Systems

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Repository Web

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View ALL Data Sets

Welcome to the UC Irvine Machine Learning Repository!

We currently maintain 440 data sets as a service to the machine learning community. You may <u>view all data sets</u> through our searchable interface. Our <u>old web site</u> is still available, for those who prefer the old format. For a general overview of the Repository, please visit our <u>About page</u>. For information about citing data sets in publications, please read our <u>citation policy</u>. If you wish to donate a data set, please consult our <u>donation policy</u>. For any other questions, feel free to <u>contact the Repository librarians</u>. We have also set up a <u>mirror site</u> for the Repository.

data sets in publications, please read our <u>citation policy</u> . If you wish to donate a data set, please consult our <u>donation policy</u> . For any other questions, feel free to <u>contact the Repository librarians</u> . We have also set up a <u>mirror site</u> for the Repository.		
Supported By: In Collaboration With: In Collaboration With: In Collaboration With: Rexu.info		
Latest News:	Newest Data Sets:	Most Popular Data Sets (hits since 2007):
04-04-2013: Welcome to the new Repository admins Kevin Bache and Moshe Lichman! 03-01-2010: Note from donor regarding Netflix data 10-16-2009: Two new data sets have been added. 09-14-2009: Several data sets have been added. 07-23-2008: Repository mirror has been set up. 03-24-2008: New data sets have been added! 06-25-2007: Two new data sets have been added: UJI Pen Characters, MAGIC Gamma Telescope	07-13-2018: EEG Steady-State Visual Evoked Potential Signals	2022128: Iris
	06-06-2018: UCI Simulated Falls and Daily Living Activities Data Set	1228193: Adult
	06-01-2018: UCI Multimodal Damage Identification for Humanitarian Computing	939548: Wine
Featured Data Set: ICU Data Type: Multivariate, Time-Series	05-31-2018: UCI Victorian Era Authorship Attribution	807873: Car Evaluation
	05-06-2018: GNFUV Unmanned Surface Vehicles Sensor Data	739484: Breast Cancer Wisconsin (Diagnostic)
	04-26-2018: Condition monitoring of hydraulic systems	703957: Wine Quality
Data set prepared for the use of participants for the 1994 AAAI Spring Symposium on Artificial Intelligence in Medicine.	04-14-2018: UCI SCADI	703112: Heart Disease
	04-09-2018: UCI Sports articles for objectivity analysis	675006: Human Activity Recognition Using Smartphones
	04-05-2018: UCI Absenteeism at work	656745: Forest Fires
	04-05-2018: Carbon Nanotubes	652419: Bank Marketing
	03-29-2018: UCI Optical Interconnection Network	640218: Abalone



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