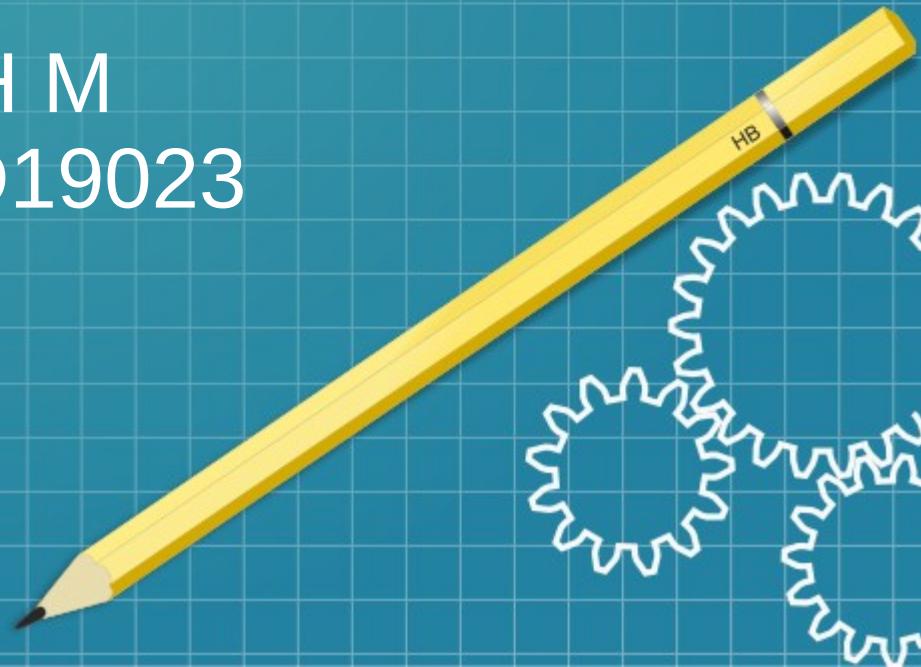


BDS TASK Ipfs and Anonymization

RAAKESH M
CB.EN.P2AID19023



IPFS



```
File Edit View Bookmarks Settings Help

IPFS

If you're seeing this, you have successfully installed IPFS and are now interfacing with the ipfs merkledag!

| Warning:
| This is alpha software. Use at your own discretion!
| Much is missing or lacking polish. There are bugs.
| Not yet secure. Read the security notes for more.

Check out some of the other files in this directory:

./about
./help
./quick-start      <-- usage examples
./readme           <-- this file
./security-notes
raakesh@rakeesh-m:~$
```

IPFS KEY GEN

```
raakesh@rakeesh-m:~$ gpg --gen-key
gpg (GnuPG) 2.2.4; Copyright (C) 2017 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Note: Use "gpg --full-generate-key" for a full featured key generation dialog.
GnuPG needs to construct a user ID to identify your key.

Real name: rex
Name must be at least 5 characters long
Real name: dragon
Email address: thedalfertamil@gmail.com
You selected this USER-ID:
  "dragon <thedalfertamil@gmail.com>"

Change (N)ame, (E)mail, or (O)kay/(Q)uit? 0
m
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
gpg: key B74167870F0EC2D4 marked as ultimately trusted
gpg: revocation certificate stored as '/home/raakesh/.gnupg/openpgp-revocs.d/6A3EDF57B412E2FCE28C4F1FB74167870F0EC2D4.rev'
public and secret key created and signed.

pub    rsa3072 2020-10-27 [SC] [expires: 2022-10-27]
      6A3EDF57B412E2FCE28C4F1FB74167870F0EC2D4
uid            dragon <thedalfertamil@gmail.com>
sub    rsa3072 2020-10-27 [E] [expires: 2022-10-27]

raakesh@rakeesh-m:~$
```

Step1

The screenshot shows a web browser window with several tabs open. The active tab is titled 'Amnesia | Dataset Wizard' and has the URL 'amnesia.openaire.eu/amnesia/mywizard.html'. The interface is a wizard titled 'Anonymization Wizard'.

The current step is '1. Delimiter', which is highlighted in green. Below it is '2. Variables', which is greyed out. The main content area is titled 'Choose delimiter' and contains the following text:

This is how the dataset looks like :

```
dt,LandAverageTemperature,LandAverageTemperatureUncertainty,LandMaxTemperature,L  
1750-01-01,3.034000000000003,3.574,...  
1750-02-01,3.083,3.702,...  
1750-03-01,5.626,3.076,...  
...
```

Below this, there is a field labeled 'Delimiter *' with a placeholder character '|'. Underneath it, the text 'DataSet Type : Simple table' is displayed.

The left sidebar of the wizard lists various options:

- Anonymization Wizard
- Restart
- Source
 - Manage
 - Load From Local
 - Load From Zenodo
- Anonymized
- Hierarchy
- Algorithms
- Solution Graph
- Results



A screenshot of a web browser window titled "Amnesia | Dataset Wizard". The URL in the address bar is "amnesia.openaire.eu/amnesia/mywizard.html". The browser has several tabs open, including "Amnesia — data anonym...", "Raa96/BDS", "trust model with python", "Sandbox Security Model", and "Building Trust in Machin...".

The main content area shows the "Anonymization Wizard" interface. On the left is a sidebar with options: "Anonymization Wizard" (selected), "Restart", "Source" (with "Manage", "Load From Local", and "Load From Zenodo" sub-options), "Anonymized" (with a dropdown arrow), "Hierarchy" (with a dropdown arrow), "Algorithms" (with a hand cursor icon pointing at it), "Solution Graph", and "Results".

The main panel has two tabs: "1. Delimiter" and "2. Variables", with "2. Variables" selected. The title "What type is your data?" is displayed, along with the instruction "Choose the columns and their types.". A table lists five columns:

	dt	LandAverageTemperature	LandAverageTemperatureUncertainty	LandMaxTemperature	LandMaxTem
	date	decimal	decimal	string	string
1750-02-01	3.083	3.702			
1750-03-01	5.626	3.076			
1750-04-01	8.49	2.451			
1750-05-01	11.573	2.072			
1750-06-01	12.937000000000001	1.724			

At the bottom are buttons for "Previous", "Finish", and "Cancel".



Amnesia | Dataset - Google Chrome

amnesia.openaire.eu/amnesia/mydataset.html

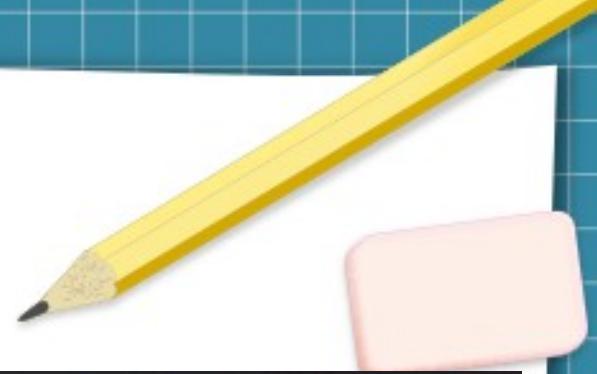
dt LandAverageTemperature LandAverageTemperatureUncertainty LandMaxTemperature LandMaxTemperatureUncertainty LandMinTemp

dt	LandAverageTemperature	LandAverageTemperatureUncertainty	LandMaxTemperature	LandMaxTemperatureUncertainty	LandMinTemp
16/10/0005	3.0340000000000003	3.574			
16/11/0005	3.083	3.702			
14/12/0005	5.626	3.076			
14/01/0006	8.49	2.451			
13/02/0006	11.573	2.072			
16/03/0006	12.93700000000001	1.724			
15/04/0006	15.868	1.911			
16/05/0006	14.75	2.231			
16/06/0006	11.41299999999998	2.637			
16/07/0006	6.36699999999999	2.668			
16/08/0006					
15/09/0006	2.772	2.97			
17/10/0005	2.495	3.469			
17/11/0005	0.963	3.827			
15/12/0005	5.8	3.051			
15/01/0006	7.67	2.3680000000000003			



A screenshot of a web browser showing a dataset page. The URL in the address bar is amnesia.openaire.eu/amnesia/mydataset.html. The page displays a table of data with 14 rows and 6 columns. The columns are labeled: dt, LandAverageTemperature, LandAverageTemperatureUncertainty, LandMaxTemperature, LandMaxTemperatureUncertainty, and LandMinTemperature.

dt	LandAverageTemperature	LandAverageTemperatureUncertainty	LandMaxTemperature	LandMaxTemperatureUncertainty	LandMinTemperature
04/02/2007	14.875	0.115	20.79	0.098	9.047
07/03/2007	13.091	0.086	18.865	0.106	7.399
06/04/2007	10.33	0.076	16.066	0.111	4.689
07/05/2007	6.712999999999999	0.121	12.284	0.124	1.3730000000000002
06/06/2007	4.85	0.09	10.19	0.14800000000000002	-0.331
06/07/2006	3.881	0.13	9.432	0.09	-1.5180000000
08/08/2006	4.664	0.121	10.497	0.092	-1.1380000000
05/09/2006	6.74	0.06	12.659	0.096	0.8943000000000001
06/10/2006	9.313	0.08800000000000001	15.224	0.1369999999999998	3.401999999999999
05/11/2006	12.312000000000001	0.081	18.18099999999997	0.117	6.2130000000000005
06/12/2006	14.505	0.068	20.364	0.139	8.627
05/01/2007	15.050999999999998	0.086	20.954	0.109	9.326
05/02/2007	14.755	0.07200050000000001	20.699	0.11	9.044999999999999
	12.999	0.079	18.849	0.08800000000000001	7.159



Check if dataset is Anonymous

Choose attributes :

- dt
- LandAverageTemperature
- LandAverageTemperatureUncertainty
- LandMaxTemperature
- LandMaxTemperatureUncertainty
- LandMinTemperature
- LandMinTemperatureUncertainty
- LandAndOceanAverageTemperature
- LandAndOceanAverageTemperatureUncertainty

Choose K :

1

I

Close

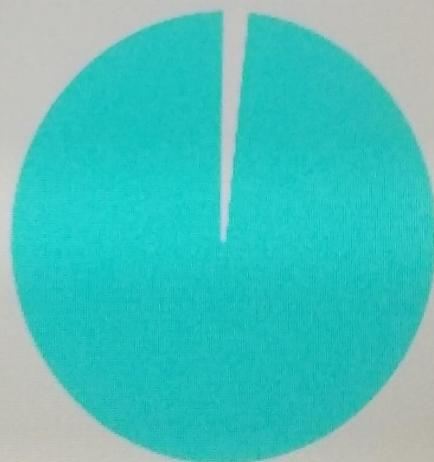
Show Anonymization



Check if dataset is Anonymous

"dt,LandAverageTemperature,LandMaxTemperature,LandMinTemperature,LandAndOceanAverageTemperature" is anonymous for k : 1.

Percentage of displayed dataset is : 100%



Close

Support

Apply



A screenshot of a web browser window showing the "Hierarchy Autogenerate Wizard" interface. The browser tabs include "Amnesia | Data anonymization", "Amnesia | Autogenerate", "Raa96/BDS", "trust model with python", and "Sandbox Security Model". The main content area displays the Amnesia logo and the title "Hierarchy Autogenerate Wizard version:1.2.1 beta". Below this, a navigation bar shows "Hierarchy Autogenerate" and two tabs: "1. Choose Attribute and Hierarchy Type" (highlighted in green) and "2. Hierarchy Info". The "Choose Attribute" section contains three dropdown menus: "On Attribute" set to "LandAverageTemperature", "Type" set to "range", and "VarType" set to "Decimal". On the left sidebar, under the "Hierarchy" section, there are links for "Manage", "Load from Local", and "Auto Generate".

Amnesia | Autogenerate Wizard - Google Chrome

Raa96/BDS

trust model with python

Sandbox Security Model

Building Trust in Mach

amnesia.openaire.eu/amnesia/myhierarchywizard.html

anonymization Wizard

restart

source

Anonymized

Hierarchy

Manage

Load from Local

Auto Generate

Algorithms

Solution Graph

Results

1. Choose Attribute and Hierarchy Type

2. Hierarchy Info

Hierarchy Information

Step	
1.90210	

Name	
I	

Domain start	
-2.08-19.021	

End limit	

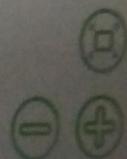
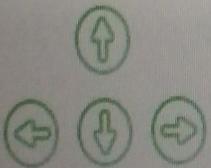
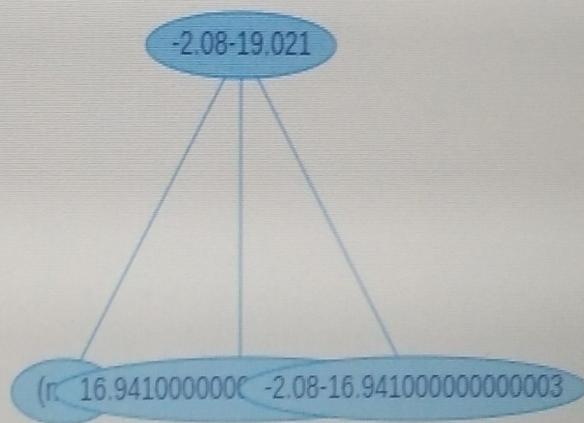
Fanout	
10	

Previous

Next

Cancel

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Proceed to Algorithms 

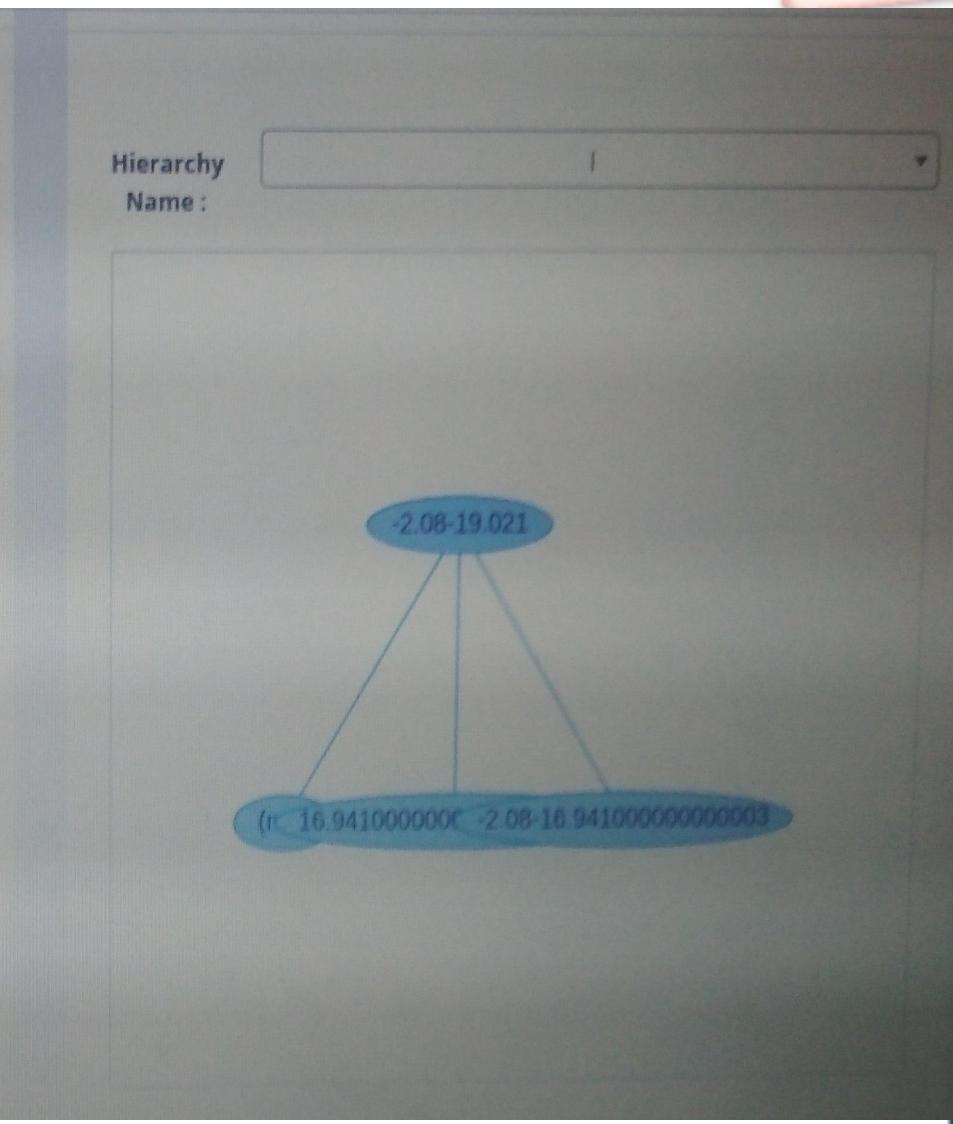
Show 10 entries

dt	LandAverageTemperature	LandAverageTemperatureUnit
16/10/0005	3.0340000000000003	3.574
16/11/0005	3.083	3.702
14/12/0005	5.626	3.076
14/01/0006	8.49	2.451
13/02/0006	11.573	2.072
16/03/0006	12.937000000000001	1.724
15/04/0006	15.868	1.911
16/05/0006	14.75	2.231
16/06/0006	11.41299999999998	2.637
16/07/0006	6.36699999999999	2.668

Showing 1 to 10 of 3,192 entries

Previous 1 2 3 4 5 ...

320 Next





Show 10 entries

dt	LandAverageTemperature	LandAverageTemperatureUncertainty	LandMaxTemperature	LandMaxTemperatureUncertainty
16/10/0005	-2.08-19.021	-2.08-19.021	(null)	(null)
16/11/0005	-2.08-19.021	-2.08-19.021	(null)	(null)
14/12/0005	-2.08-19.021	-2.08-19.021	(null)	(null)
14/01/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
13/02/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
16/03/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
15/04/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
16/05/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
16/06/0006	-2.08-19.021	-2.08-19.021	(null)	(null)
16/07/0006	-2.08-19.021	-2.08-19.021	(null)	(null)

Showing 1 to 10 of 3,192 entries

Previous 1 2 3 4 5 ... 320 Next



Anonymized Dataset

Show 10 entries

dt	LandAverageTemperature	LandAverageTemperatureUncertainty	LandMaxTemperature	LandMaxTemperatureUncertainty
02/01/0007	-2.08-19.021	-2.08-19.021	21.006	0.079
02/02/0007	-2.08-19.021	-2.08-19.021	20.709	0.079
05/03/0007	-2.08-19.021	-2.08-19.021	19.074	0.093
04/04/0007	-2.08-19.021	-2.08-19.021	16.203	0.099
05/05/0007	-2.08-19.021	-2.08-19.021	12.689	0.15
04/06/0007	-2.08-19.021	-2.08-19.021	9.498	0.149
06/07/0006	-2.08-19.021	-2.08-19.021	9.255	0.154
06/08/0006	-2.08-19.021	-2.08-19.021	9.95	0.057
03/09/0006	-2.08-19.021	-2.08-19.021	12.328	0.0890000000000000C
04/10/0006	-2.08-19.021	-2.08-19.021	15.084000000000001	0.15

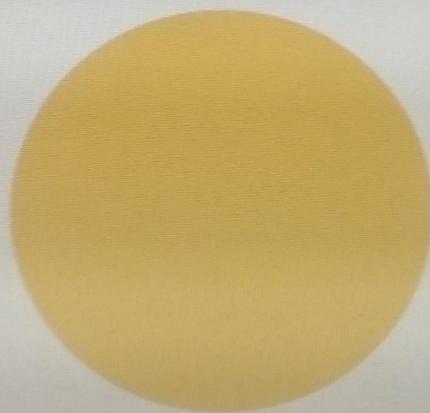


Statistics of the dataset with this solution

Choose
Attributes :

LandAverageTemperature

Percentage of displayed dataset is : 100%



Close

Suppress

Apply

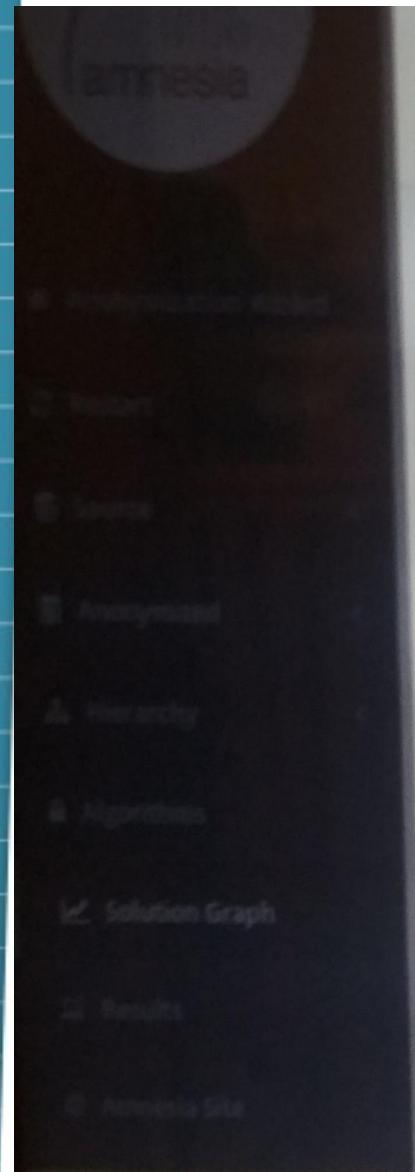


Statistics of the dataset with this solution

Choose
Attributes :

LandAverageTemperatureUncertainty

Percentage of displayed dataset is : 100%



Close

Suppress

Apply



Statistics of the dataset with this solution

Choose
Attributes :

LandAverageTemperature LandAverageTemperatureUncertainty

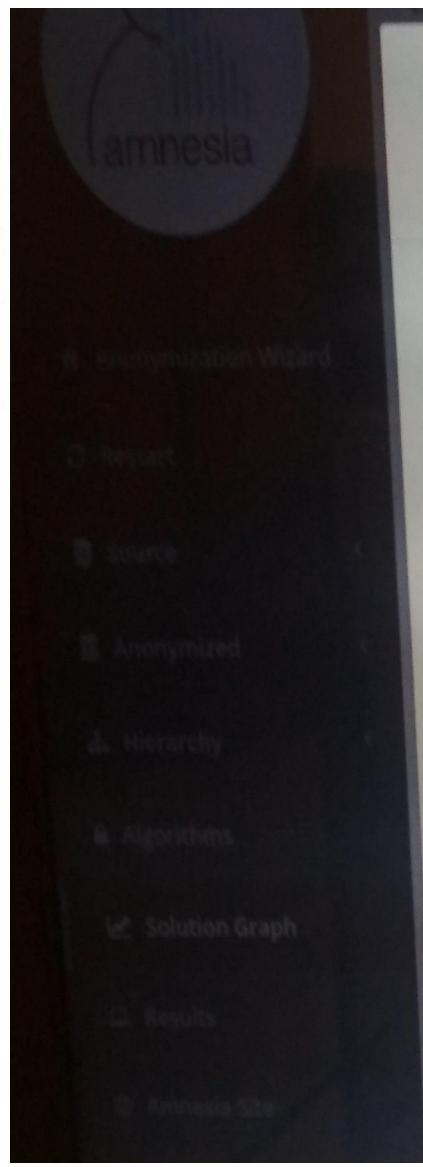
Percentage of displayed dataset is : 100%



Close

Suppress

Apply



Solution Graph

