

Silent Titanic Space Pythons

Goal:

Unify datasets in order to model and create simulations.



Tasks:

A	B	C	D	E	F
Name	Abdul	Max	Tyshawn	Vanessa	Zyahn
Task	Heat map framework	Simulation framework for travel	Public transportation data analysis	Unify datasets	Public transportation data analysis
Percentage(%)	30	10		27.5	
Difficulty	Dataframe	Modeling the travel distributions			
Comments				Normalized to fips	
Task2		Setup cloudy cluster			
Percentage		95			
Difficulty		Sleepy orz			
Comments					
Task3		MPI and multiprocessing for simulations			
Percentage		1			
Difficulty		No experience			
Comments					

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Unify datasets in order to model and create simulations.

Tasks:

We unified datasets and created a heat model.



Name	Abdul	Max	Tyshawn	Vanessa	Zyahn
Task	UI	Cheerleading	COVID simulation	Unify datasets	COVID simulation
Percentage(%)	30	10		27.5	
Difficulty	Dataframe	Cannot do split _♀_			
Comments	https://colab.research.google.com/drive/1d1tTam		https://www.maa.org/p	Normalized to fips: https://www.maa.org/	https://www.maa.org/
SubTask1	Heat map framework		SIR model	Merge the dataset	SIR model
Percentage	100!!!		5	100!!!	5
Difficulty					
Comments					
SubTask2	Dashboard UI			Normalize data	
Percentage	10			20	
Difficulty					
Comments					

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Finished products:

We unified datasets and created a heat model.

Link to demo:

https://youtu.be/Clv_t9jJNtg



```
In [9]: df3.head()
```

```
Out[9]:
```

	OBJECTID	GEOID10	County	Area_Name	Total_Population	Total_Population_MOE_2016	Total_households	Total_households_MOE	HH_income_less_35k
0	1	13045910103	13045	Census Tract 9101.03, Carroll County	4824	361	1836	131	570
1	2	13045910104	13045	Census Tract 9101.04, Carroll County	10068	865	3450	225	945
2	3	13045910502	13045	Census Tract 9105.02, Carroll County	3339	523	1117	150	866
3	4	13045910800	13045	Census Tract 9108, Carroll County	4188	451	1440	97	389
4	5	13045910101	13045	Census Tract 9101.01, Carroll County	6224	495	2287	218	1111