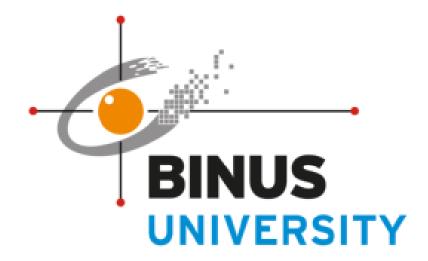
Fundamentals of Data Science Final Project



Lecturer:

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COMP6784001_Fundamentals of Data Science

Computer Science Faculty

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Project name

Solar Power Plant optimization

Name and Group Members:

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2. Edbert Tan

1. Problem Analysis

As it stands, humanity's constant use of fossil fuel has drained the earth of many resources, with the possibility of humans running out of it completely in the future. The issue is that humans keep using the non-renewable resources instead of the renewable ones. Renewable energy comes in many forms such as wind energy, geothermal energy, hydropower, bioenergy, ocean energy, and the main topic here, solar energy. Solar energy can be harnessed by using solar panels, which absorbs the energy from sunlight and creates electric charges from them. Like any solution, there is a way to optimize solar energy, in this case by placing them in a solar energy plant within areas with the most sunshine hours. However, there is also an issue with the solar panels where they will break more often when placed in areas with an average temperature higher than 25 degrees Celsius. To solve this, we have to place the solar energy plant in a place with the most sunshine hours while also making sure the average temperature does not exceed 25 by too much.

2. related work

https://www.researchgate.net/publication/324840611_Potential_of_Solar_Energy_in_I ndonesia

https://www.researchgate.net/publication/356513998_Study_of_Indonesia's_Solar_En
ergy_Implementation_Using_Identification_of_Potency_Policies_and_Cost-Benefit_
Analysis

https://journals.itb.ac.id/index.php/joki/article/download/3917/1961

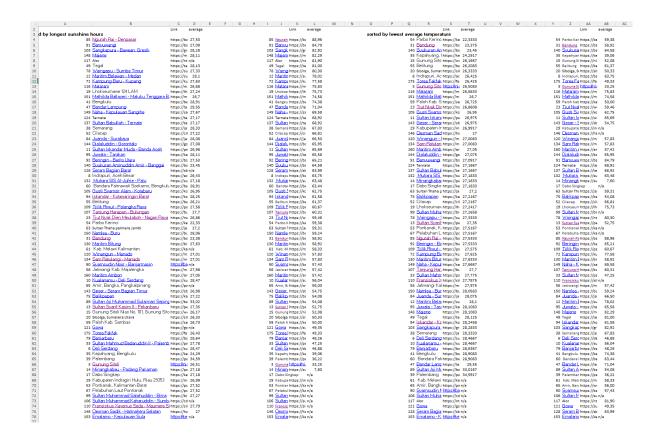
3. Dataset and Reprocessing

average sunshine hours per area

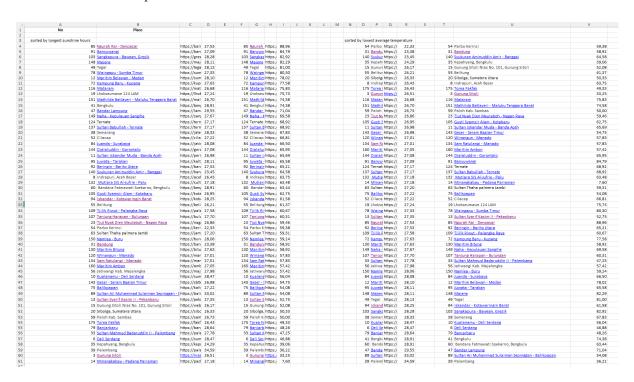
B No	C	D	E	F	G	Н	1	J	K	L	M	N	0	P	Q	R	S
No	place	Link	average	month January	February	March	April	May	June	July	August	September	October	November	December		
3	Gunung Sitoli	https://niaskab	33,25	22,00	63,00	37,00	34,00	36,00	33,00	35,00	26,00	22,00	31,00	26,00	34,00		
	Deli Serdang	https://deliserd	46,88	58,75	48,75	68,75	66,25	66,25	35,00	63,75	55,00	43,75	23,75	22,50	10,00		
1	3 Indrapuri, Aceh Besar	https://bandaa	63,75	78,75	71,25	57,50	83,75	72,50	68,75	68,75	71,25	70,00	33,75	51,25	37,50		
	Kualanamu - Deli Serdang L Sultan Iskandar Muda - Banda Aceh	https://sumut.b	56,04	66,25	48,75	73,75	63,75	71,25	56,25	72,50	61,25	55,00	35,00	42,50	26,25		
	Maritim Belawan - Medan	https://www.bp https://sumut.b	65,69 78,02	92,50	90,00	100,00	100,00	98,75	93,75	82,50	68,75	71,25	46,25	55,00	37,50		
	Sultan Syarif Kasim II - Pekanbaru	https://pekanba	52,75	34.00	49.00	44,00	57,00	65.00	68.00	62,00	52,00	62,00	47.00	54,00	39,00		
	Minangkabau - Padang Pariaman	https://sumbar.	7.60	34,00	45,00	44,00	37,00	03,00	00,00	02,00	32,00	02,00	47,00	34,00	33,00		
	Gunung Sitoli Nias No. 101, Gunung Sitoli	https://niassela	52,08	45,00	79,00	49,00	43,00	53,00	65,00	59,00	52,00	50,00	33,00	44,00	53,00		
17	7 Dabo Singkep		0,00														
	Hokseumawe 124 LAM	https://lhokseu	75,73	68,75	66,25	86,25	96,25	92,50	91,25	92,50	78,75	62,50	68,75	55,00	50,00		
) Sibolga, Sumatera Utara	https://sibolgak	50,33	54,00	63,00	64,00	55,00	47,00	53,00	70,00	43,00	52,00	31,00	33,00	39,00		
	3 Tjut Nyak Dien Meulaboh - Nagan Raya 9 Kabupaten Indragiri Hulu, Riau 29353	https://www.bn https://inhukab															
	F Kabupaten Indragiri Hulu, Kiau 29353 I <u>Bandung</u>	https://bandune	n/a 58.92	57.00	52.00	44.00	47.00	49.00	34.00	73.00	90.00	81.00	80.00	51.00	49.00		
3	Sultan Mahmud Badaruddin II - Palemba		47,25	48,60	37,40	45,30	51,80	59,60	24,30	48,10	70,50	56,00	48,50	46,10	30,80		
	Kepahyang, Bengkulu	https://kepahia	39.06	32,50	41,25	48.75	50,00	40.00	53.75	65.00	18.75	15.00	28.75	35.00	40.00		
	3 Semarang	https://jateng.b	67,83	34,00	39,00	68,00	74,00	81,00	75,00	89,00	91,00	84,00	85,00	47,00	47,00		
39	9 Palembang	https://palembi	36,22	24,49	37,65	35,56	40,50	42,50	40,94	45,46	36,67	40,36	35,46	21,11	33,97		
	1 Bengkulu	https://bengkul	74,38	86,25	78,75	90,00	100,00	86,25	80,00	77,50	77,50	57,50	46,25	56,25	56,25		
	7 Bandar Lampung	https://lampunį	71,04	53,75	37,50	66,25	85,00	81,25	53,75	62,50	87,50	100,00	100,00	61,25	63,75		
	9 Tegal	https://tegalkat	81,00	52,00	38,00	80,00	89,00	86,00	90,00	91,00	95,00	99,00	99,00	75,00	78,00		
	2 Cilacap 3 Pontianak, Kalimantan Barat	https://cilacapk https://kalbar.b	66,81	44,35	48,61	69,94	80,40	83,10	73,03	88,97	77,03	77,23	60,77	44,27	54,03		
	Pontianak, Kalimantan Barat Parho Kerinci	https://kalbar.b https://kerincik		31.25	53.75	51.25	63.75	72.50	66.25	52 50	72.50	72.50	72.50	58.75	45.00		
	Belitung	https://belitung		33,30	56,70	55,60	50,30	58,80	63,50	87,40	87,40	88,80	60,70	64,30	29,60		
	5 Jatiwangi Kab. Majalengka	https://majalen	57,42	45,00	22,00	54,00	56,00	71,00	61,00	65,00	74,00	86,00	67,00	49,00	39,00		
59	Paloh Kab. Sambas	https://kalbar.b	50,00														
) Bandara Fatmawati Soekarno, Bengkulu	https://bengkul	63,44	65,00	67,50	76,25	96,25	81,25	67,50	66,25	70,00	50,00	37,50	41,25	42,50		
	I Kab. Melawi Kalimantan	https://melawii	58,33	71,00	52,00	53,00	62,00	59,00	62,00	51,00	65,00	55,00	59,00	50,00	61,00		
	Sultan Thaha palmera Jambi	https://jambi.bj	59,31														
	5 Amir, Bangka, Pangkalpinang 7 Pelabuhan Laut Pontianak	https://www.bp https://kalbar.b															
	Kampung Baru - Kupang	https://kupangk		55.00	51.00	72,00	89.00	92.00	78.00	95.00	93.00	95.00	85.00	63.00	63.00		
7	Balikpapan	https://balikpar	54,08	36,00	27,00	41,00	41,00	51,00	53,00	56,00	85,00	74,00	79,00	55,00	51,00		
78	Waingapu - Sumba Timur	https://ntt.bps.	80,30	,	,	,		,	,	,	,	,	,	,	,		
	Banjarbaru	https://banjarb	48,26	36,20	36,60	32,50	56,20	59,60	45,70	58,40	57,90	60,60	55,20	44,70	35,50		
	Juanda - Surabaya	https://jatim.bp	66,50	46,00	51,00	55,00	64,00	91,00	75,00	88,00	96,00	88,00	49,00	49,00	46,00		
85	 Ngurah Rai - Denpasar Sultan Aii Muhammad Sulaiman Seping 	https://bali.bps	88,96	86,25	57,50	85,00	57,50	100,00	90,00	100,00	100,00	91,25	100,00	100,00	100,00		
	9 Sultan Aji Muhammad Sulaiman Sepingi 3 Svamsudin Noor - Baniarmasin	https://balikpar https://baniarb	54,08 57,43	36,00 30,70	27,00 41.30	41,00 50.90	41,00 50,40	51,00 63.60	53,00 39.40	56,00 76.00	85,00 76,30	74,00 78.60	79,00 71.50	55,00 56.70	51,00 53.80		
	Banuuwangi	https://banyuw	84,79	83,75	70,00	71,25	46,25	90,00	77,50	93,75	100,00	78,60 85,00	100,00	100,00	100,00		
	Beringin - Barito Utara	https://barutkal	65,21	50.00	43.75	51.25	71,25	67.50	66,25	70.00	77,50	66.25	83.75	67.50	67.50		
94	Iskandar - Kotawaringin Barat	https://kobarka	61,58	53,00	48,00	62,00	52,00	64,00	66,00	72,00	76,00	64,00	62,00	61,00	59,00		
	Juwata - Tarakan	https://tarakani	65,58	65,00	71,00	58,00	67,00	80,00	74,00	74,00	71,00	58,00	53,00	62,00	54,00		
99	Sultan Muhammad Salahuddin - Birna	https://bimakat															
	Sangkapura - Bawean, Gresik	https://gresikka		47,50	32,50	68,75	76,25	91,25	100,00	100,00	100,00	100,00	100,00	98,75	80,00		
	5 Gusti Syamsir Alam - Kotabaru 5 Sultan Muhammad Kaharuddin - Sumba	https://kotabar		47,00	67,00	56,00	53,00	65,00	47,00	43,00	91,00	84,00	69,00	75,00	56,00		
	5 <u>Sultan Muhammad Kaharuddin - Sumba</u> 7 <u>Tanjung Harapan - Bulungan</u>	https://sumbaw https://bulunga		38,75	45,00	52,50	58,75	63,75	66,25	75,00	71,25	70,00	68,75	67,50	46,25		
100	Tiilik Riwut - Palangka Rava	https://palanek	60,51	57,00	45,00 55,00	55,00	67,00	66,00	63,00	63,00	68,00	64,00	50,00	57,00	63,00		
	Fransiskus Xaverius Seda - Maumere Sikka	https://sikkakat		27,00	22,00	33,00	07,00	55,50	05,00	05,00	55,50	0.,00	20,00	27,00	03,00		
	Mataram	https://matarar	75,83	64,00	46,00	70,00	66,00	88,00	88,00	82,00	91,00	89,00	90,00	61,00	75,00		
	7 Alor	https://ntt.bps.;	81,90														
	Winangun - Manado	https://manado	57,83	42,00	48,00	61,00	50,00	71,00	69,00	57,00	68,00	47,00	81,00	57,00	43,00		
	I Gowa	https://sulbar.b	49,35	30,70	48,60	54,40	57,00	57,90	55,30	43,40	53,90	49,60	57,30	50,20	33,90		
	Ternate	https://ternatel	68,92	61,00	60,00	68,00	71,00	73,00	49,00	67,00	65,00	89,00	86,00	72,00	66,00		
	Seram Bagian Barat	https://sbbkab.l https://bituneko	63,99	48,30	61,50	65,90	52,80	66,30	45,70	59,50	67,70	89,10	83,10		50.55		
130	Maritim Bitung Mutiara SIS Al-Jufrie - Palu	https://bitungko https://sulteng.	58,92 63.48	53,00 26.90	58,00 80.20	80,00 76.40	82,00 75.00	50,00 68.30	62,00 57.30	46,00 69.10	61,00 73.00	49,00 58,80	61,00 60.20	55,00 58.70	50,00 57.80		
	Sam Ratulanci - Manado	https://manado		42.00	48.00	61.00	50.00	71.00	57,30 69.00	57.00	73,00 68.00	47.00	81.00	57.00	43.00		
	7 Sultan Babullah - Ternate	https://ternatel	68,92	61,00	60,00	68,00	71,00	73,00	49,00	67,00	65,00	89,00	86,00	72,00	66,00		
140	Svukuran Aminuddin Amir - Banggai	https://banggail	64,58	81,25	70,00	62,50	51,25	65,00	72,50	56,25	51,25	36,25	52,50	76,25	100,00		
143	Geser - Seram Bagian Timur	https://sbtkab.t	54,75	45,00	59,00	66,00	55,00	50,00	39,00	48,00	57,00	49,00	71,00	58,00	60,00		
	Dialaluddin - Gorontalo	https://boalem	65,95	68,30	80,40	80,60	66,30	59,60	62,80	61,90	76,50	58,30	55,70	64,60	56,40		
	Desman Sadik - Halmahera Selatan	https://halmahi															
	3 Majene 3 Naha - Kepulauan Sangihe	https://majenel	82,29 69.58	86,25 42.00	83,75	56,25 67.00	50,00 83.00	73,75	77,50 69.00	90,00 65.00	78,75	91,25	100,00 85.00	100,00	100,00		
	∍ Nana - Kepulauan Sangine ⊃ Namlea - Buru	https://sangihei https://burukab	69,58 59,24	42,00 48,40	56,00 49,20	67,00 73,70	83,00 73,80	70,00 57,60	69,00 63,60	65,00 53,30	71,00 49,30	70,00 52,50	85,00 67,20	86,00 70,00	71,00 52,30		
) <u>Namiea - Buru</u> 1. Mathilda Batlaveri - Maluku Tenggara Ba		74.58	48,40	49,20 69.00	71.00	60.00	68.00	76.00	73.00	94.00	98.00	97.00	90,00	58,00		
15	B Emalamo - Kepulauan Sula	https://kepsulki		71,00	05,00	71,00	00,00	00,00	70,00	, 2,00	34,00	50,00	37,00	20,00	30,00		
160	Maritim Ambon	https://ambonk		55,00	74,00	61,00	63,00	54,00	23,00	30,00	32,00	63,00	63,00	92,00	79,00		
	Torea Fakfak	https://fakfakka	49,33	47,00	36,00	45,00	60,00	55,00	57,00	27,00	44,00	50,00	65,00	59,00	47,00		



		В	С	D	-	F	•				v		.,		•	P	-
1	No	Place	C	U	E month	F	G	Н	1	J	K	L	M	N	0	P	Q
2			Link	average	January	February	March	April	May	June	July	August	September	October	November	December	
3																	
4		Gunung Sitoli	https://nia		26	26,4	27	26,7	26,9	26,7	26,3	26,3	26,3	26,3	26,4	26,8	
5		Deli Serdang Indrapuri, Aceh Besar	https://sun https://ace		27,5 26.4	27,9 26,4	29 26,6	29,2	29,1	28,4 26,1	28,5 25,2	29,1 25,5	28,4 25,9	29,2 27.1	27,9 27,2	27,4 27,2	
7) Kualanamu - Deli Serdang	https://ace	-	27,5	27,9	20,0	26,8 29,2	26,7 29,1	28,4	28,5	29,1	25,9	29,2	27,2	27,2	
8		Sultan Iskandar Muda - Banda Aceh	https://per	,	26,1	26,9	26,5	27	27,7	27,6	27,8	27.3	27	27.3	26,2	26,3	
9		Maritim Belawan - Medan	https://sun		28	27,8	28,5	28,8	29	28,2	28,7	28,2	28	27,7	27,6	26,7	
10	13	Sultan Syarif Kasim II - Pekanbaru	https://pek	27,35	25,9	26,4	26,4	26,2	28	27,7	27,5	27,1	27,6	27,3	27	31,1	
11		Minangkabau - Padang Pariaman	https://pac	27,183	26,7	27,1	27,5	27,6	27,9	27,7	27,1	26,9	26,7	26,6	27,1	27,3	
12		Gunung Sitoli Nias No. 101, Gunung Sitoli	https://wel		27	26	26	27	27	26	26	26	25	26	26	26	
13		Dabo Singkep	https://kep		26,4	27,3	27,3	27,3	27,7	27,8	27,8	26,9	26,9	27,2	26,8	26,8	
14		Lhokseumawe 124 LAM	https://lhol		26,3	26,5	27,1	27,9	28,2	27,9	28	27,7	27,3	26,8	26,5	26,7	
15) Sibolga, Sumatera Utara) Tiut Nvak Dien Meulaboh - Nagan Rava	https://sibo https://nag		25,7 27.43	26,3 27.03	26,8 27.17	25,8 27.51	27,1 27,49	26,7 26.64	26,6 27.05	26,4 26.5	26,3 26.54	26,5 26.23	25,5 26.26	26,3 26.48	
17		Kabupaten Indragiri Hulu, Riau 29353	https://inh		26,8	26,5	27,17	27,31	28	26,9	27,03	20,3	26,7	26,7	27,1	26,3	
18	31	Bandung	https://bar	23,375	23,3	23,5	24,1	23,3	23,9	22,8	23,1	23,3	23,3	23,2	23,4	23,3	
19	33		https://pal		27,5	27,2	27,8	28,1	28,2	27,8	27,9	28,3	27,7	27,6	27,7	27,5	
20		Kepahyang, Bengkulu Semarang	https://kep https://jate		24,3 27,8	24,6 27,4	24,4 28	24,8 28,5	24,7 29	24,2 28,5	24,2 28,3	24,3 28,6	24,3 29,2	23,9 28,7	24,1 28,6	23,7 27,4	
22		Palembang	https://pal		34	34	35	34,3	34,6	35,2	34,3	34,6	35	35,2	34	34,9	
23		Bengkulu	https://ber	28,908	27,8	28,5	29	29,2	30,3	29,6	28,9	29,3	28	28,6	28,3	29,4	
24		Bandar Lampung	https://lam		27,8	27,9	28,3	29,6	30	29,1	28,9	29,6	30,9	32,2	30,4	29,9	
25 26	49 52) Tegal ! Cilacap	https://teg https://cila		27,4 27,70	27 27.30	27,6 27,80	28,5 28.00	28,5 28.10	28,2 27.30	27,5 26,00	27,3 25.30	27,9 25,80	29,2 27.20	29,4 28.00	29 28,10	
27		Pontianak, Kalimantan Barat	https://por		27,1	27,3	27,9	28,1	28,3	27,2	27,7	27,7	27,00	27,5	27,1	27,3	
28		Parbo Kerinci	https://ker		22,1	22,5	22,2	22,3	23,1	22	22,4	22,3	21,3	22,5	22,7	22,6	
29 30		Belitung	https://beli		26,4 27.2	26,4 27	26,5 27	26,6 27.9	27,1	25,9 27.5	26,3 27.2	26,4 27.4	26,6 28.3	25	25 30	26,3 27.8	
31		i Jatiwangi Kab. Majalengka I Paloh Kab. Sambas	https://ma https://san		27,2	25.6	26.1	27,9	28,3 27.5	27,5	27,2	26,6	28,3 26,8	30,1 27,2	26.7	26,7	
32	60		https://ber		27,8	28,5	29	29,2	30,3	29,6	28,9	29,3	28	28,6	28,3	29,4	
33	61		https://kalb														
34		Sultan Thaha palmera Jambi Amir, Bangka, Pangkalpinang	https://jam https://pan		27 ngkota hos	26,5	26,9	27,2 able/2/M	27,3 ii=3171-/r	27,5	28 Juhu-kota-n	28 angkalnina	27 ng html	27	27	27	
36		Pelabuhan Laut Pontianak	https://por		27,1	27,3	27,9	28,1	28,3	27,2	27,7	27,7	27	27,5	27,1	27,3	
37		Kampung Baru - Kupang	https://kur		27,8	27	27,6	27,7	28,5	27,3	25,8	26,9	28,2	28,8	28,1	27,8	
38	75 78	Balikpapan Waingapu - Sumba Timur	https://kali https://sun		26,8 28	26,8 28	27,2 28	27,7 28	27,8 26	27,3 26	27,2 25	26,9 25	26,8 28	27,4	27,3 29	27,4 28	
40) Baniarbaru	https://bar		28,37	28,53	28,76	29,04	29.33	28,3	28,27	29.38	28,86	29.06	28,2	27,54	
41		Juanda - Surabaya	https://jati		27,5	27,7	27,9	28,2	28,6	27,9	27,5	27,3	28,3	29,8	28,2	28	
42		Ngurah Rai - Denpasar	https://bali		27,8	27,5	28,1	27,8	27,7	27,1	26,4	26,3	26,6	28	28,6	28,5	
43	89 90		https://bali https://bai		33,3	32,9 ao idlidl	32,2 statistics	34,1 -table/2i	33,4 /MTEulzl	32,3 =/subu=	31,9 udara.htm	32,3	32,1	33,8	33,9	34	
45		. Banyuwangi	https://bar		27,2	26.4	27.4	27,2	27.4	26.8	25,7	25.8	26,2	27.9	28.5	28.6	
46	92	Beringin - Barito Utara	https://bar		26,8	26,7	26,8	27,4	27,9	27,6	27,4	27,9	27,8	28,5	28	27,6	
47		Iskandar - Kotawaringin Barat	https://kot		28,25	28,2	28,35	28,4	28,75	28,3	28,25	28,1	28,35	28,15	28,05	27,8	
48	95	Sall and Tallattan	https://kal https://bim		27,2 27,2	27,5 26,8	27,9 27,3	28,1 27,8	28,3 27,2	28,4 26,6	28,2 25,8	28,4 26	28,1 27,2	28,7 28,9	28,3 28,29	28,2 28,1	
50	103		https://gre		27,4	27,1	27,3	28,2	28,7	28,7	28,1	28	28,3	29,1	29,4	29,1	
51	105		https://kot	26,95	26,8	26,5	26,7	27,2	27,1	26,4	26,5	26,3	26,9	27,7	27,7	27,6	
52	106		https://cdn								07.0		07.0	00.0	20.4	07.0	
53 54	107		https://bul https://pal		27 27,5	26,9 27,4	27,3 27,5	27,7	27,9	27,9	27,8 27,5	28 27,5	27,8 27,6	28,2	28,1 27,6	27,8 27,7	
55) Fransiskus Xaverius Seda - Maumere Sikka	https://sikl		28,3	28,05	28,55	28,6	27,15	27,4	25,5	25,8	26,9	27,4	29,55	29,95	
56	116	Mataram	https://ma		26,9	26,5	26,6	27,1	26,3	26,1	25,3	25,3	26	27,7	28,3	28,1	
57		Alor	https://ntt.l					/suhu-ud			paten-kota						
58 59	120) <u>Winangun-Manado</u> . <u>Gowa</u>	https://ma https://gow		26,2	26,5	26,4	27,8	27,2	27,1	27,1	27,1	26,8	28,3	27	26,6	
60		Ternate	https://terr		3.gu.iu/iu 27	27	27	28	27	27	27	27	27	27	27	28	
61		Seram Bagian Barat	https://sbb		go.id/id/sta	tistics-tab	le?subject	=519	_		_			_			
62		Maritim Bitung	https://bitu		26,9	27,6	27,9	27,7	27,1	27,1	27,7	27,6	28,3	28,3	28	27,4	
63 64		: <u>Mutiara SIS Al-Jufrie - Palu</u> : <u>Sam Ratulangi - Manado</u>	https://sult https://ma		26,7 26,2	26,7 26.5	27,1 26,4	28 27.8	27,6 27,2	27,1 27,1	26,6 27,1	26,7 27.1	27 26.8	27,3 28.3	27,6 27	27,8 26.6	
65	134		https://ma		26,2	26,5	26,4	27,8	27,2	27,1	27,1	27,1	26,8	28,3	27	26,6	
66	140	Syukuran Aminuddin Amir - Banggai	https://bar		23,8	24,3	24	23,6	23,3	23,8	22,7	22,6	22,1	22,7	25	23,5	
67		Geser - Seram Bagian Timur	https://sbt		25,1	27,8	28,3	28,3	26,9	27,2	23,8	25,8	26,5	27,5	28,4	28,1	
68		⊢ <u>Djalaluddin - Gorontalo</u> i Oesman Sadik - Halmahera Selatan	https://gor		26,9	27,3	26,6	27,3	26,6	27,2	27	27	26,7	27,7	27,2	27,4	
69 70		o <u>Desman Sadik - Naimanera Selatan</u> O <u>Maiene</u>	https://hali https://ma		27 26,9	27 27,3	27 27,4	27 28,1	27 28,4	27 27,8	27 27,8	26 27,9	26 28,5	27 29,3	28 29,1	28 28,8	
71	149	Naha - Kepulauan Sangihe	https://san	27,667	27	27,1	27,1	28,3	28,1	27,3	27,7	27,6	28,1		27,7	27,9	
72		Namlea - Buru	https://bur		27,5	27,3	27,7	27,8	28	27,5	27	27,9	27,9	29,3	29,9	28,9	
73 74		. <u>Mathilda Batlayeri - Maluku Tenggara Barat</u> . Emalamo - Kepulauan Sula	https://ma https://ker		26,9 bps go id	24,5 lid	25,9	25,6	27,4	26,3	26,2	27,1	26,8	27,4	28,2	28,1	
75		Maritim Ambon	https://am		28,4	28,8	27,6	27,4	27	26	25,5	25,6	25,9	26,8	27,7	27,9	
76		Torea Fakfak	https://fak		26,4	26,4	26,6	26,8	26,7	26,1	25,2	25,5	25,9	27,1	27,2	27,2	



sorted and removed places with unavailable data



4. Model and Techniques

- -using google colab to visualise data
- -using powerbi to visualise data