

@Hak cipta milik IPB University

LAMPIRAN

- Hak Cipta Dilindungi Undang-undang
1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah
 - b. Pengutipan tidak merugikan kepentingan yang wajar IPB University.
 2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin IPB University.

Lampiran 1 Hasil kombinasi lengkap *grid search* pada Skenario 1

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
300	5	eom	0.02	3	0.634	0.867	0.896	1.000	0.113
300	5	eom	0	3	0.634	0.867	0.896	1.000	0.113
300	5	eom	0.05	3	0.634	0.867	0.896	1.000	0.113
400	5	eom	0.05	2	0.615	0.900	0.894	1.000	0.113
400	5	eom	0.02	2	0.615	0.900	0.894	1.000	0.113
400	5	eom	0	2	0.615	0.900	0.894	1.000	0.113
500	5	eom	0.02	2	0.615	0.900	0.894	1.000	0.113
500	5	eom	0.05	2	0.615	0.900	0.894	1.000	0.113
500	5	eom	0	2	0.615	0.900	0.894	1.000	0.113
300	3	eom	0.05	3	0.634	0.867	0.896	1.000	0.118
300	3	eom	0.02	3	0.634	0.867	0.896	1.000	0.118
300	3	eom	0	3	0.634	0.867	0.896	1.000	0.118
300	1	eom	0.02	3	0.634	0.867	0.896	1.000	0.120
300	1	eom	0.05	3	0.634	0.867	0.896	1.000	0.120
300	1	eom	0	3	0.634	0.867	0.896	1.000	0.120
500	3	eom	0.02	2	0.615	0.900	0.894	1.000	0.118
500	3	eom	0	2	0.615	0.900	0.894	1.000	0.118
400	3	eom	0.02	2	0.615	0.900	0.894	1.000	0.118
400	3	eom	0	2	0.615	0.900	0.894	1.000	0.118
400	3	eom	0.05	2	0.615	0.900	0.894	1.000	0.118
500	3	eom	0.05	2	0.615	0.900	0.894	1.000	0.118
500	1	eom	0.02	2	0.615	0.900	0.894	1.000	0.135
400	1	eom	0.05	2	0.615	0.900	0.894	1.000	0.135
500	1	eom	0	2	0.615	0.900	0.894	1.000	0.135
400	1	eom	0	2	0.615	0.900	0.894	1.000	0.135
400	1	eom	0.02	2	0.615	0.900	0.894	1.000	0.135
500	1	eom	0.05	2	0.615	0.900	0.894	1.000	0.135
400	5	leaf	0	9	0.623	0.767	0.922	1.000	0.571
400	5	leaf	0.05	9	0.623	0.767	0.922	1.000	0.571
400	5	leaf	0.02	9	0.623	0.767	0.922	1.000	0.571
500	5	leaf	0.02	7	0.608	0.786	0.919	1.000	0.581
500	5	leaf	0.05	7	0.608	0.786	0.919	1.000	0.581
500	5	leaf	0	7	0.608	0.786	0.919	1.000	0.581
600	1	eom	0	3	0.593	0.833	0.895	1.000	0.368
600	1	eom	0.05	3	0.593	0.833	0.895	1.000	0.368
600	1	eom	0.02	3	0.593	0.833	0.895	1.000	0.368
700	1	eom	0	3	0.593	0.833	0.895	1.000	0.368
1000	1	eom	0.05	3	0.593	0.833	0.895	1.000	0.368
800	1	eom	0.02	3	0.593	0.833	0.895	1.000	0.368
800	1	eom	0.05	3	0.593	0.833	0.895	1.000	0.368
1000	1	eom	0.02	3	0.593	0.833	0.895	1.000	0.368
1000	1	eom	0	3	0.593	0.833	0.895	1.000	0.368
800	1	eom	0	3	0.593	0.833	0.895	1.000	0.368
700	1	eom	0.02	3	0.593	0.833	0.895	1.000	0.368
700	1	eom	0.05	3	0.593	0.833	0.895	1.000	0.368
500	1	leaf	0	8	0.608	0.725	0.919	1.000	0.527
500	1	leaf	0.05	8	0.608	0.725	0.919	1.000	0.527
500	1	leaf	0.02	8	0.608	0.725	0.919	1.000	0.527
500	3	leaf	0	8	0.625	0.700	0.916	1.000	0.562
500	3	leaf	0.05	8	0.625	0.700	0.916	1.000	0.562
500	3	leaf	0.02	8	0.625	0.700	0.916	1.000	0.562
300	1	leaf	0.05	12	0.582	0.717	0.928	1.000	0.505
300	1	leaf	0	12	0.582	0.717	0.928	1.000	0.505

Lampiran 2 Hasil kombinasi lengkap *grid search* pada Skenario 1 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
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300	1	leaf	0.02	12	0.582	0.717	0.928	1.000	0.505
400	1	leaf	0.05	10	0.583	0.720	0.923	1.000	0.534
400	1	leaf	0.02	10	0.583	0.720	0.923	1.000	0.534
400	1	leaf	0	10	0.583	0.720	0.923	1.000	0.534
300	5	leaf	0	13	0.607	0.723	0.928	1.000	0.672
300	5	leaf	0.02	13	0.607	0.723	0.928	1.000	0.672
300	5	leaf	0.05	13	0.607	0.723	0.928	1.000	0.672
700	3	eom	0.02	3	0.528	0.833	0.895	1.000	0.351
800	3	eom	0.05	3	0.528	0.833	0.895	1.000	0.351
800	3	eom	0	3	0.528	0.833	0.895	1.000	0.351
800	3	eom	0.02	3	0.528	0.833	0.895	1.000	0.351
1000	3	eom	0.05	3	0.528	0.833	0.895	1.000	0.351
1000	3	eom	0	3	0.528	0.833	0.895	1.000	0.351
1000	3	eom	0.02	3	0.528	0.833	0.895	1.000	0.351
600	3	eom	0.02	3	0.528	0.833	0.895	1.000	0.351
700	3	eom	0	3	0.528	0.833	0.895	1.000	0.351
600	3	eom	0	3	0.528	0.833	0.895	1.000	0.351
600	3	eom	0.05	3	0.528	0.833	0.895	1.000	0.351
700	3	eom	0.05	3	0.528	0.833	0.895	1.000	0.351
300	3	leaf	0.05	13	0.592	0.669	0.927	1.000	0.631
300	3	leaf	0	13	0.592	0.669	0.927	1.000	0.631
300	3	leaf	0.02	13	0.592	0.669	0.927	1.000	0.631
1000	5	eom	0	3	0.513	0.833	0.899	1.000	0.375
800	5	eom	0.05	3	0.513	0.833	0.899	1.000	0.375
1000	5	eom	0.02	3	0.513	0.833	0.899	1.000	0.375
1000	5	eom	0.05	3	0.513	0.833	0.899	1.000	0.375
800	5	eom	0.02	3	0.513	0.833	0.899	1.000	0.375
700	5	eom	0.05	3	0.513	0.833	0.899	1.000	0.375
700	5	eom	0.02	3	0.513	0.833	0.899	1.000	0.375
600	5	eom	0.05	3	0.513	0.833	0.899	1.000	0.375
700	5	eom	0	3	0.513	0.833	0.899	1.000	0.375
600	5	eom	0.02	3	0.513	0.833	0.899	1.000	0.375
600	5	eom	0	3	0.513	0.833	0.899	1.000	0.375
800	5	eom	0	3	0.513	0.833	0.899	1.000	0.375
1000	5	leaf	0	5	0.575	0.800	0.910	1.000	0.589
1000	5	leaf	0.02	5	0.575	0.800	0.910	1.000	0.589
1000	5	leaf	0.05	5	0.575	0.800	0.910	1.000	0.589
800	5	leaf	0.02	5	0.575	0.800	0.910	1.000	0.589
800	5	leaf	0	5	0.575	0.800	0.910	1.000	0.589
800	5	leaf	0.05	5	0.575	0.800	0.910	1.000	0.589
700	5	leaf	0.05	5	0.575	0.800	0.910	1.000	0.589
700	5	leaf	0.02	5	0.575	0.800	0.910	1.000	0.589
700	5	leaf	0	5	0.575	0.800	0.910	1.000	0.589
400	3	leaf	0.02	11	0.588	0.673	0.923	1.000	0.660
400	3	leaf	0.05	11	0.588	0.673	0.923	1.000	0.660
400	3	leaf	0	11	0.588	0.673	0.923	1.000	0.660
600	1	leaf	0	6	0.557	0.767	0.916	1.000	0.552
600	1	leaf	0.02	6	0.557	0.767	0.916	1.000	0.552
600	1	leaf	0.05	6	0.557	0.767	0.916	1.000	0.552
1000	1	leaf	0.05	6	0.557	0.767	0.916	1.000	0.552
1000	1	leaf	0.02	6	0.557	0.767	0.916	1.000	0.552
800	1	leaf	0	6	0.557	0.767	0.916	1.000	0.552
700	1	leaf	0.05	6	0.557	0.767	0.916	1.000	0.552

Lampiran 3 Hasil kombinasi lengkap *grid search* pada Skenario 1 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
800	1	leaf	0.02	6	0.557	0.767	0.916	1.000	0.552
700	1	leaf	0	6	0.557	0.767	0.916	1.000	0.552
700	1	leaf	0.02	6	0.557	0.767	0.916	1.000	0.552
800	1	leaf	0.05	6	0.557	0.767	0.916	1.000	0.552
1000	1	leaf	0	6	0.557	0.767	0.916	1.000	0.552
600	5	leaf	0.05	6	0.549	0.800	0.916	1.000	0.607
600	5	leaf	0	6	0.549	0.800	0.916	1.000	0.607
600	5	leaf	0.02	6	0.549	0.800	0.916	1.000	0.607
1000	3	leaf	0.02	5	0.552	0.760	0.910	1.000	0.574
1000	3	leaf	0.05	5	0.552	0.760	0.910	1.000	0.574
1000	3	leaf	0	5	0.552	0.760	0.910	1.000	0.574
600	3	leaf	0	6	0.541	0.733	0.915	1.000	0.576
600	3	leaf	0.02	6	0.541	0.733	0.915	1.000	0.576
700	3	leaf	0.05	6	0.541	0.733	0.915	1.000	0.576
700	3	leaf	0.02	6	0.541	0.733	0.915	1.000	0.576
600	3	leaf	0.05	6	0.541	0.733	0.915	1.000	0.576
700	3	leaf	0	6	0.541	0.733	0.915	1.000	0.576
800	3	leaf	0.02	6	0.541	0.733	0.915	1.000	0.576
800	3	leaf	0.05	6	0.541	0.733	0.915	1.000	0.576
800	3	leaf	0	6	0.541	0.733	0.915	1.000	0.576

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Lampiran 4 Hasil kombinasi lengkap *grid search* pada Skenario 2

<i>min</i> <i>cluster</i> <i>size</i>	<i>min</i> <i>samples</i>	<i>Method</i>	<i>Eps</i>	N Topik	TC	TU	DC	Fa	Rasio Outlier
500	3	eom	0.02	2	0.636	0.950	0.899	1.000	0.193
500	3	eom	0	2	0.636	0.950	0.899	1.000	0.193
500	3	eom	0.05	2	0.636	0.950	0.899	1.000	0.193
1000	3	eom	0.05	2	0.636	0.950	0.899	1.000	0.193
800	3	eom	0	2	0.636	0.950	0.899	1.000	0.193
1000	3	eom	0	2	0.636	0.950	0.899	1.000	0.193
800	3	eom	0.02	2	0.636	0.950	0.899	1.000	0.193
800	3	eom	0.05	2	0.636	0.950	0.899	1.000	0.193
700	3	eom	0.05	2	0.636	0.950	0.899	1.000	0.193
700	3	eom	0.02	2	0.636	0.950	0.899	1.000	0.193
700	3	eom	0	2	0.636	0.950	0.899	1.000	0.193
600	3	eom	0.05	2	0.636	0.950	0.899	1.000	0.193
600	3	eom	0.02	2	0.636	0.950	0.899	1.000	0.193
600	3	eom	0	2	0.636	0.950	0.899	1.000	0.193
1000	3	eom	0.02	2	0.636	0.950	0.899	1.000	0.193
700	1	eom	0.05	2	0.636	0.950	0.899	1.000	0.194
700	1	eom	0	2	0.636	0.950	0.899	1.000	0.194
800	1	eom	0	2	0.636	0.950	0.899	1.000	0.194
700	1	eom	0.02	2	0.636	0.950	0.899	1.000	0.194
500	1	eom	0.02	2	0.636	0.950	0.899	1.000	0.194
600	1	eom	0.02	2	0.636	0.950	0.899	1.000	0.194
600	1	eom	0	2	0.636	0.950	0.899	1.000	0.194
500	1	eom	0.05	2	0.636	0.950	0.899	1.000	0.194
500	1	eom	0	2	0.636	0.950	0.899	1.000	0.194
600	1	eom	0.05	2	0.636	0.950	0.899	1.000	0.194
1000	1	eom	0.02	2	0.636	0.950	0.899	1.000	0.194
1000	1	eom	0	2	0.636	0.950	0.899	1.000	0.194
1000	1	eom	0.05	2	0.636	0.950	0.899	1.000	0.194
800	1	eom	0.05	2	0.636	0.950	0.899	1.000	0.194
800	1	eom	0.02	2	0.636	0.950	0.899	1.000	0.194
600	5	eom	0	2	0.616	0.950	0.900	1.000	0.243
600	5	eom	0.02	2	0.616	0.950	0.900	1.000	0.243
700	5	eom	0	2	0.616	0.950	0.900	1.000	0.243
600	5	eom	0.05	2	0.616	0.950	0.900	1.000	0.243
700	5	eom	0.02	2	0.616	0.950	0.900	1.000	0.243
700	5	eom	0.05	2	0.616	0.950	0.900	1.000	0.243
800	5	eom	0.02	2	0.616	0.950	0.900	1.000	0.243
800	5	eom	0	2	0.616	0.950	0.900	1.000	0.243
1000	5	eom	0.02	2	0.616	0.950	0.900	1.000	0.243
800	5	eom	0.05	2	0.616	0.950	0.900	1.000	0.243
1000	5	eom	0	2	0.616	0.950	0.900	1.000	0.243
500	5	eom	0	2	0.616	0.950	0.900	1.000	0.243
500	5	eom	0.02	2	0.616	0.950	0.900	1.000	0.243
500	5	eom	0.05	2	0.616	0.950	0.900	1.000	0.243
1000	5	eom	0.05	2	0.616	0.950	0.900	1.000	0.243
400	3	eom	0	3	0.600	0.900	0.903	1.000	0.174
400	3	eom	0.02	3	0.600	0.900	0.903	1.000	0.174
400	3	eom	0.05	3	0.600	0.900	0.903	1.000	0.174
400	1	eom	0.05	3	0.600	0.900	0.903	1.000	0.175
400	1	eom	0	3	0.600	0.900	0.903	1.000	0.175
400	1	eom	0.02	3	0.600	0.900	0.903	1.000	0.175

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1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah
b. Pengutipan tidak merugikan kepentingan yang wajar IPB University.
2. Dilarang mengumunkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin IPB University.

Lampiran 5 Hasil kombinasi lengkap *grid search* pada Skenario 2 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
1000	3	leaf	0.02	3	0.604	0.900	0.907	1.000	0.443
1000	3	leaf	0.05	3	0.604	0.900	0.907	1.000	0.443
1000	3	leaf	0	3	0.604	0.900	0.907	1.000	0.443
300	3	eom	0.05	6	0.590	0.783	0.920	1.000	0.195
300	3	eom	0	6	0.590	0.783	0.920	1.000	0.195
300	3	eom	0.02	6	0.590	0.783	0.920	1.000	0.195
300	5	eom	0.05	6	0.549	0.833	0.922	1.000	0.192
300	5	eom	0	6	0.549	0.833	0.922	1.000	0.192
300	5	eom	0.02	6	0.549	0.833	0.922	1.000	0.192
300	1	eom	0.02	6	0.523	0.850	0.922	1.000	0.192
300	1	eom	0.05	6	0.523	0.850	0.922	1.000	0.192
300	1	eom	0	6	0.523	0.850	0.922	1.000	0.192
400	5	eom	0	5	0.529	0.820	0.915	1.000	0.208
400	5	eom	0.05	5	0.529	0.820	0.915	1.000	0.208
400	5	eom	0.02	5	0.529	0.820	0.915	1.000	0.208
500	5	leaf	0.02	7	0.600	0.771	0.925	1.000	0.592
500	5	leaf	0.05	7	0.600	0.771	0.925	1.000	0.592
500	5	leaf	0	7	0.600	0.771	0.925	1.000	0.592
500	3	leaf	0.02	7	0.600	0.757	0.924	1.000	0.588
500	3	leaf	0.05	7	0.600	0.757	0.924	1.000	0.588
500	3	leaf	0	7	0.600	0.757	0.924	1.000	0.588
1000	5	leaf	0.02	4	0.527	0.900	0.918	1.000	0.639
1000	5	leaf	0	4	0.527	0.900	0.918	1.000	0.639
1000	5	leaf	0.05	4	0.527	0.900	0.918	1.000	0.639
1000	1	leaf	0.05	4	0.525	0.875	0.917	1.000	0.613
1000	1	leaf	0	4	0.525	0.875	0.917	1.000	0.613
1000	1	leaf	0.02	4	0.525	0.875	0.917	1.000	0.613
600	5	leaf	0.05	6	0.559	0.800	0.925	1.000	0.619
600	5	leaf	0.02	6	0.559	0.800	0.925	1.000	0.619
600	5	leaf	0	6	0.559	0.800	0.925	1.000	0.619
800	5	leaf	0	5	0.544	0.840	0.921	1.000	0.648
800	5	leaf	0.02	5	0.544	0.840	0.921	1.000	0.648
700	5	leaf	0	5	0.544	0.840	0.921	1.000	0.648
700	5	leaf	0.02	5	0.544	0.840	0.921	1.000	0.648
700	5	leaf	0.05	5	0.544	0.840	0.921	1.000	0.648
800	5	leaf	0.05	5	0.544	0.840	0.921	1.000	0.648
500	1	leaf	0.02	6	0.559	0.783	0.924	1.000	0.611
500	1	leaf	0	6	0.559	0.783	0.924	1.000	0.611
600	1	leaf	0.05	6	0.559	0.783	0.924	1.000	0.611
500	1	leaf	0.05	6	0.559	0.783	0.924	1.000	0.611
600	1	leaf	0	6	0.559	0.783	0.924	1.000	0.611
600	1	leaf	0.02	6	0.559	0.783	0.924	1.000	0.611
600	3	leaf	0.02	6	0.565	0.767	0.923	1.000	0.615
600	3	leaf	0	6	0.565	0.767	0.923	1.000	0.615
600	3	leaf	0.05	6	0.565	0.767	0.923	1.000	0.615
800	1	leaf	0	5	0.544	0.820	0.921	1.000	0.642
800	1	leaf	0.05	5	0.544	0.820	0.921	1.000	0.642
700	1	leaf	0	5	0.544	0.820	0.921	1.000	0.642
800	1	leaf	0.02	5	0.544	0.820	0.921	1.000	0.642
700	1	leaf	0.02	5	0.544	0.820	0.921	1.000	0.642
700	1	leaf	0.05	5	0.544	0.820	0.921	1.000	0.642
700	3	leaf	0	5	0.553	0.800	0.920	1.000	0.645
800	3	leaf	0.02	5	0.553	0.800	0.920	1.000	0.645

Lampiran 6 Hasil kombinasi lengkap *grid search* pada Skenario 2 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	N Topik	TC	TU	DC	Fa	Rasio Outlier	
@Hak cipta milik IPB University	700	3	leaf	0.02	5	0.553	0.800	0.920	1.000	0.645
	700	3	leaf	0.05	5	0.553	0.800	0.920	1.000	0.645
	800	3	leaf	0.05	5	0.553	0.800	0.920	1.000	0.645
	800	3	leaf	0	5	0.553	0.800	0.920	1.000	0.645
	400	5	leaf	0	11	0.556	0.736	0.939	1.000	0.559
	400	5	leaf	0.02	11	0.556	0.736	0.939	1.000	0.559
	400	5	leaf	0.05	11	0.556	0.736	0.939	1.000	0.559
	400	3	leaf	0.02	11	0.592	0.655	0.929	1.000	0.578
	400	3	leaf	0.05	11	0.592	0.655	0.929	1.000	0.578
	400	3	leaf	0	11	0.592	0.655	0.929	1.000	0.578
	300	3	leaf	0.05	13	0.569	0.692	0.940	1.000	0.545
	300	3	leaf	0.02	13	0.569	0.692	0.940	1.000	0.545
	300	3	leaf	0	13	0.569	0.692	0.940	1.000	0.545
	400	1	leaf	0	10	0.568	0.700	0.928	1.000	0.574
	400	1	leaf	0.02	10	0.568	0.700	0.928	1.000	0.574
	400	1	leaf	0.05	10	0.568	0.700	0.928	1.000	0.574
	300	1	leaf	0	13	0.557	0.738	0.942	1.000	0.618
	300	1	leaf	0.05	13	0.557	0.738	0.942	1.000	0.618
	300	1	leaf	0.02	13	0.557	0.738	0.942	1.000	0.618
	300	5	leaf	0.02	13	0.549	0.731	0.943	1.000	0.621
	300	5	leaf	0.05	13	0.549	0.731	0.943	1.000	0.621
	300	5	leaf	0	13	0.549	0.731	0.943	1.000	0.621

Lampiran 7 Hasil kombinasi lengkap *grid search* pada Skenario 3

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
500	3	eom	0.02	4	0.470	0.825	0.898	1.000	0.416
500	3	eom	0	4	0.470	0.825	0.898	1.000	0.416
500	3	eom	0.05	4	0.470	0.825	0.898	1.000	0.416
500	5	eom	0.02	4	0.470	0.825	0.898	1.000	0.434
500	5	eom	0.05	4	0.470	0.825	0.898	1.000	0.434
500	5	eom	0	4	0.470	0.825	0.898	1.000	0.434
600	1	eom	0.02	3	0.493	0.833	0.895	1.000	0.429
600	1	eom	0.05	3	0.493	0.833	0.895	1.000	0.429
600	1	eom	0	3	0.493	0.833	0.895	1.000	0.429
1000	1	eom	0	3	0.493	0.833	0.895	1.000	0.429
800	1	eom	0	3	0.493	0.833	0.895	1.000	0.429
700	1	eom	0.02	3	0.493	0.833	0.895	1.000	0.429
700	1	eom	0	3	0.493	0.833	0.895	1.000	0.429
700	1	eom	0.05	3	0.493	0.833	0.895	1.000	0.429
800	1	eom	0.02	3	0.493	0.833	0.895	1.000	0.429
800	1	eom	0.05	3	0.493	0.833	0.895	1.000	0.429
1000	1	eom	0.02	3	0.493	0.833	0.895	1.000	0.429
1000	1	eom	0.05	3	0.493	0.833	0.895	1.000	0.429
700	3	eom	0.05	3	0.493	0.833	0.895	1.000	0.442
800	3	eom	0.05	3	0.493	0.833	0.895	1.000	0.442
700	3	eom	0.02	3	0.493	0.833	0.895	1.000	0.442
600	3	eom	0.05	3	0.493	0.833	0.895	1.000	0.442
600	3	eom	0	3	0.493	0.833	0.895	1.000	0.442
700	3	eom	0	3	0.493	0.833	0.895	1.000	0.442
600	3	eom	0.02	3	0.493	0.833	0.895	1.000	0.442
1000	3	eom	0.02	3	0.493	0.833	0.895	1.000	0.442
1000	3	eom	0	3	0.493	0.833	0.895	1.000	0.442
1000	3	eom	0.05	3	0.493	0.833	0.895	1.000	0.442
800	3	eom	0.02	3	0.493	0.833	0.895	1.000	0.442
800	3	eom	0	3	0.493	0.833	0.895	1.000	0.442
600	5	eom	0	3	0.493	0.833	0.895	1.000	0.460
600	5	eom	0.02	3	0.493	0.833	0.895	1.000	0.460
700	5	eom	0	3	0.493	0.833	0.895	1.000	0.460
600	5	eom	0.05	3	0.493	0.833	0.895	1.000	0.460
700	5	eom	0.02	3	0.493	0.833	0.895	1.000	0.460
700	5	eom	0.05	3	0.493	0.833	0.895	1.000	0.460
800	5	eom	0.02	3	0.493	0.833	0.895	1.000	0.460
800	5	eom	0	3	0.493	0.833	0.895	1.000	0.460
1000	5	eom	0.02	3	0.493	0.833	0.895	1.000	0.460
800	5	eom	0.05	3	0.493	0.833	0.895	1.000	0.460
1000	5	eom	0	3	0.493	0.833	0.895	1.000	0.460
1000	5	eom	0.05	3	0.493	0.833	0.895	1.000	0.460
500	1	eom	0.05	5	0.522	0.800	0.900	1.000	0.380
500	1	eom	0	5	0.522	0.800	0.900	1.000	0.380
500	1	eom	0.02	5	0.522	0.800	0.900	1.000	0.380
300	1	eom	0.02	12	0.510	0.767	0.925	1.000	0.346
300	1	eom	0.05	12	0.510	0.767	0.925	1.000	0.346
300	1	eom	0	12	0.510	0.767	0.925	1.000	0.346
300	5	eom	0.02	11	0.499	0.736	0.919	1.000	0.361
300	5	eom	0.05	11	0.499	0.736	0.919	1.000	0.361
300	5	eom	0	11	0.499	0.736	0.919	1.000	0.361
300	3	eom	0.02	11	0.516	0.745	0.924	1.000	0.366
300	3	eom	0	11	0.516	0.745	0.924	1.000	0.366

Lampiran 8 Hasil kombinasi lengkap *grid search* pada Skenario 3 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
@Hak cipta milik IPB University									
300	3	eom	0.05	11	0.516	0.745	0.924	1.000	0.366
400	1	eom	0.02	6	0.569	0.767	0.902	1.000	0.360
400	1	eom	0.05	6	0.569	0.767	0.902	1.000	0.360
400	1	eom	0	6	0.569	0.767	0.902	1.000	0.360
400	3	eom	0.02	6	0.569	0.767	0.902	1.000	0.373
400	3	eom	0.05	6	0.569	0.767	0.902	1.000	0.373
400	3	eom	0	6	0.569	0.767	0.902	1.000	0.373
500	5	leaf	0	6	0.509	0.767	0.905	1.000	0.594
500	5	leaf	0.05	6	0.509	0.767	0.905	1.000	0.594
500	5	leaf	0.02	6	0.509	0.767	0.905	1.000	0.594
400	5	eom	0	6	0.569	0.767	0.902	1.000	0.391
400	5	eom	0.05	6	0.569	0.767	0.902	1.000	0.391
400	5	eom	0.02	6	0.569	0.767	0.902	1.000	0.391
500	3	leaf	0.02	6	0.526	0.767	0.907	1.000	0.579
500	3	leaf	0	6	0.526	0.767	0.907	1.000	0.579
500	3	leaf	0.05	6	0.526	0.767	0.907	1.000	0.579
300	5	leaf	0.05	13	0.523	0.738	0.923	1.000	0.521
300	5	leaf	0	13	0.523	0.738	0.923	1.000	0.521
300	5	leaf	0.02	13	0.523	0.738	0.923	1.000	0.521
500	1	leaf	0	7	0.532	0.743	0.908	1.000	0.527
500	1	leaf	0.02	7	0.532	0.743	0.908	1.000	0.527
500	1	leaf	0.05	7	0.532	0.743	0.908	1.000	0.527
300	3	leaf	0.05	13	0.533	0.731	0.929	1.000	0.496
300	3	leaf	0.02	13	0.533	0.731	0.929	1.000	0.496
300	3	leaf	0	13	0.533	0.731	0.929	1.000	0.496
600	5	leaf	0	5	0.530	0.760	0.902	1.000	0.620
800	5	leaf	0	5	0.530	0.760	0.902	1.000	0.620
800	5	leaf	0.02	5	0.530	0.760	0.902	1.000	0.620
800	5	leaf	0.05	5	0.530	0.760	0.902	1.000	0.620
700	5	leaf	0	5	0.530	0.760	0.902	1.000	0.620
600	5	leaf	0.05	5	0.530	0.760	0.902	1.000	0.620
700	5	leaf	0.02	5	0.530	0.760	0.902	1.000	0.620
700	5	leaf	0.05	5	0.530	0.760	0.902	1.000	0.620
600	5	leaf	0.02	5	0.530	0.760	0.902	1.000	0.620
600	3	leaf	0.02	5	0.538	0.760	0.904	1.000	0.604
600	3	leaf	0.05	5	0.538	0.760	0.904	1.000	0.604
700	3	leaf	0.05	5	0.538	0.760	0.904	1.000	0.604
800	3	leaf	0	5	0.538	0.760	0.904	1.000	0.604
800	3	leaf	0.05	5	0.538	0.760	0.904	1.000	0.604
700	3	leaf	0	5	0.538	0.760	0.904	1.000	0.604
600	3	leaf	0	5	0.538	0.760	0.904	1.000	0.604
800	3	leaf	0.02	5	0.538	0.760	0.904	1.000	0.604
700	3	leaf	0.02	5	0.538	0.760	0.904	1.000	0.604
800	1	leaf	0.05	5	0.538	0.740	0.903	1.000	0.576
800	1	leaf	0.02	5	0.538	0.740	0.903	1.000	0.576
700	1	leaf	0.02	5	0.538	0.740	0.903	1.000	0.576
700	1	leaf	0	5	0.538	0.740	0.903	1.000	0.576
800	1	leaf	0	5	0.538	0.740	0.903	1.000	0.576
700	1	leaf	0.05	5	0.538	0.740	0.903	1.000	0.576
1000	1	leaf	0.02	5	0.538	0.740	0.903	1.000	0.576
1000	1	leaf	0.05	5	0.538	0.740	0.903	1.000	0.576
600	1	leaf	0.02	5	0.538	0.740	0.903	1.000	0.576
1000	1	leaf	0	5	0.538	0.740	0.903	1.000	0.576

Lampiran 9 Hasil kombinasi lengkap *grid search* pada Skenario 3 (lanjutan)

<i>min_ cluster_ size</i>	<i>min_ samples</i>	<i>Method</i>	<i>Eps</i>	<i>N Topik</i>	<i>TC</i>	<i>TU</i>	<i>DC</i>	<i>Fa</i>	<i>Rasio Outlier</i>
600	1	leaf	0.05	5	0.538	0.740	0.903	1.000	0.576
600	1	leaf	0	5	0.538	0.740	0.903	1.000	0.576
1000	3	leaf	0	4	0.565	0.775	0.895	1.000	0.592
1000	3	leaf	0.02	4	0.565	0.775	0.895	1.000	0.592
1000	3	leaf	0.05	4	0.565	0.775	0.895	1.000	0.592
400	3	leaf	0	8	0.571	0.750	0.911	1.000	0.536
400	3	leaf	0.05	8	0.571	0.750	0.911	1.000	0.536
400	3	leaf	0.02	8	0.571	0.750	0.911	1.000	0.536
1000	5	leaf	0.02	4	0.568	0.775	0.896	1.000	0.618
1000	5	leaf	0	4	0.568	0.775	0.896	1.000	0.618
1000	5	leaf	0.05	4	0.568	0.775	0.896	1.000	0.618
400	1	leaf	0	8	0.566	0.725	0.910	1.000	0.507
400	1	leaf	0.02	8	0.566	0.725	0.910	1.000	0.507
400	1	leaf	0.05	8	0.566	0.725	0.910	1.000	0.507
400	5	leaf	0	8	0.575	0.750	0.909	1.000	0.552
400	5	leaf	0.02	8	0.575	0.750	0.909	1.000	0.552
400	5	leaf	0.05	8	0.575	0.750	0.909	1.000	0.552
300	1	leaf	0.05	16	0.548	0.706	0.930	1.000	0.580
300	1	leaf	0	16	0.548	0.706	0.930	1.000	0.580
300	1	leaf	0.02	16	0.548	0.706	0.930	1.000	0.580

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RIWAYAT HIDUP

Penulis dilahirkan di kabupaten Sragen pada 15 Desember 2000 sebagai anak pertama dari pasangan bapak Basuki Agus Suparno dan ibu Erni Indriyastuti. Pendidikan sarjana ditempuh di Program Studi Statistika, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Sebelas Maret, dan lulus pada tahun 2023. Pada tahun 2024, penulis diterima sebagai mahasiswa program magister (S-2) di Program Studi Statistika dan Sains Data pada Sekolah Pascasarjana IPB University dan menamatkannya pada tahun 2026.

Penulis pernah bekerja sebagai *Business Analyst* di Sales Catalyst pada Oktober 2025 hingga Mei 2026. Sebelum itu, penulis berperan sebagai asisten mentor pada program Digital Talent Scholarship yang diselenggarakan Kementerian Komunikasi dan Informatika (Kominfo) bersama DQLab pada Februari hingga Maret 2024. Pengalaman kerja penulis turut mencakup posisi *Research and Product Analyst* di PT Hara Anargya Indonesia pada Oktober 2023 hingga Maret 2024.

Selama menempuh pendidikan, penulis turut berkontribusi dalam beberapa karya ilmiah. Karya ilmiah berjudul *Bayesian Neural Network untuk Prediksi Diabetes: Uncertainty Quantification dalam Machine Learning* dipublikasikan di *Indonesian Journal of Applied Statistics*. Penulis juga berkontribusi dalam karya ilmiah berjudul *Augmentasi GPT-4o dan Fine-Tuning IndoBERT untuk Analisis Sentimen Publik Pada Isu Reshuffle Menteri Keuangan* yang dipublikasikan di *MUST: Journal of Mathematics Education, Science and Technology*. Selain itu, penulis turut berkontribusi dalam karya ilmiah berjudul *Pemodelan Topik pada Komentar YouTube Arra: Komparasi LDA dan K-Means Menggunakan Fitur Leksikal dan Semantik* yang dipublikasikan di *Jurnal Informatika: Jurnal Pengembangan IT*, serta karya ilmiah berjudul *Exploring a Large Language Model on the ChatGPT Platform for Indonesian Text Preprocessing Tasks* yang dipublikasikan di *Indonesian Journal of Statistics and Its Applications*. Karya ilmiah yang merupakan bagian dari tesis ini berjudul *Joint Optimization of Preprocessing and HDBSCAN Hyperparameters in BERTopic for Indonesian Social Media Text* dipublikasikan di *Jurnal Teori dan Aplikasi Matematika (JTAM)*.