

Fig 1: Any\_Cancer\_Response

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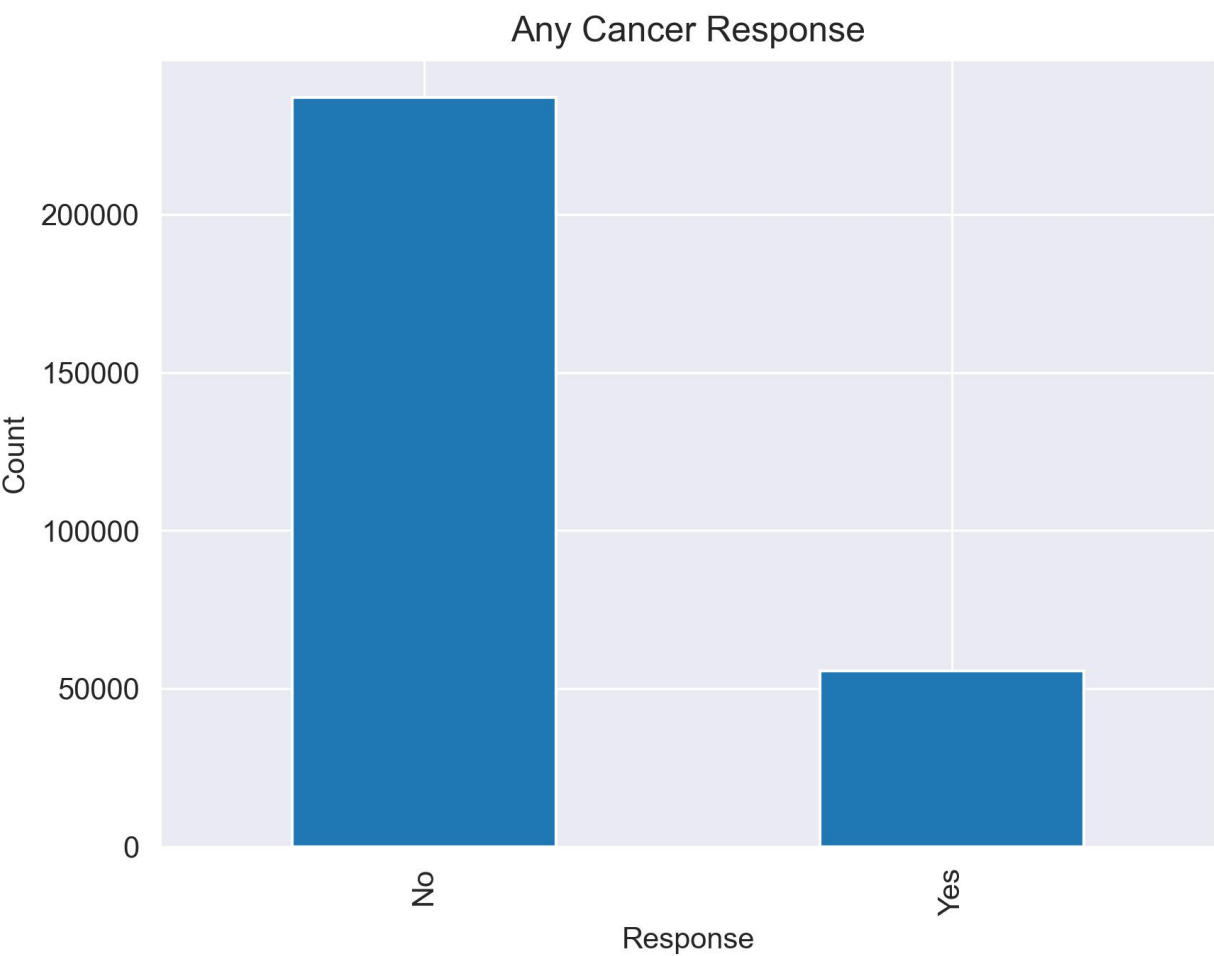


Fig 2: Any\_Cardiac\_Condition

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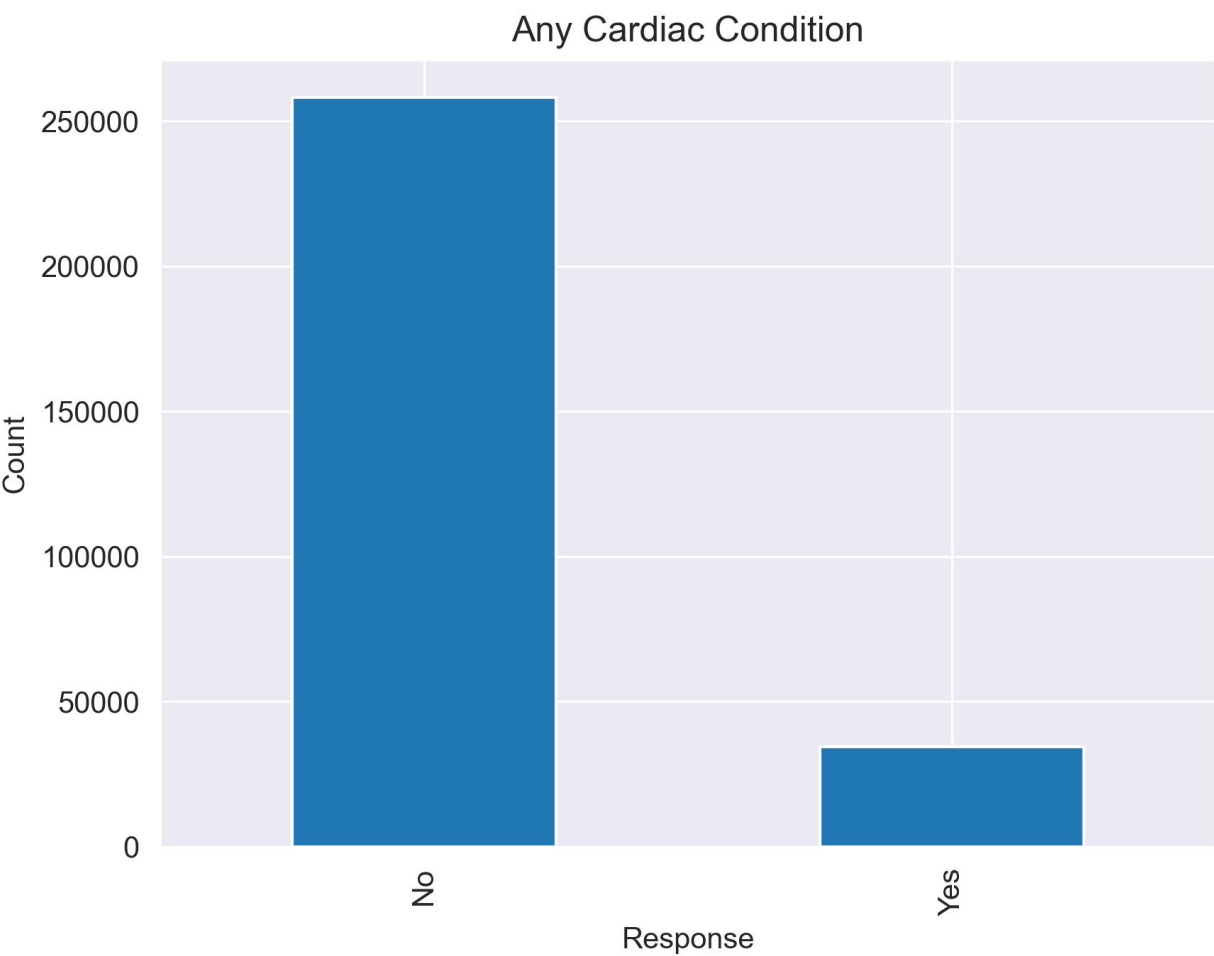


Fig 3: Any\_Chronic\_Condition

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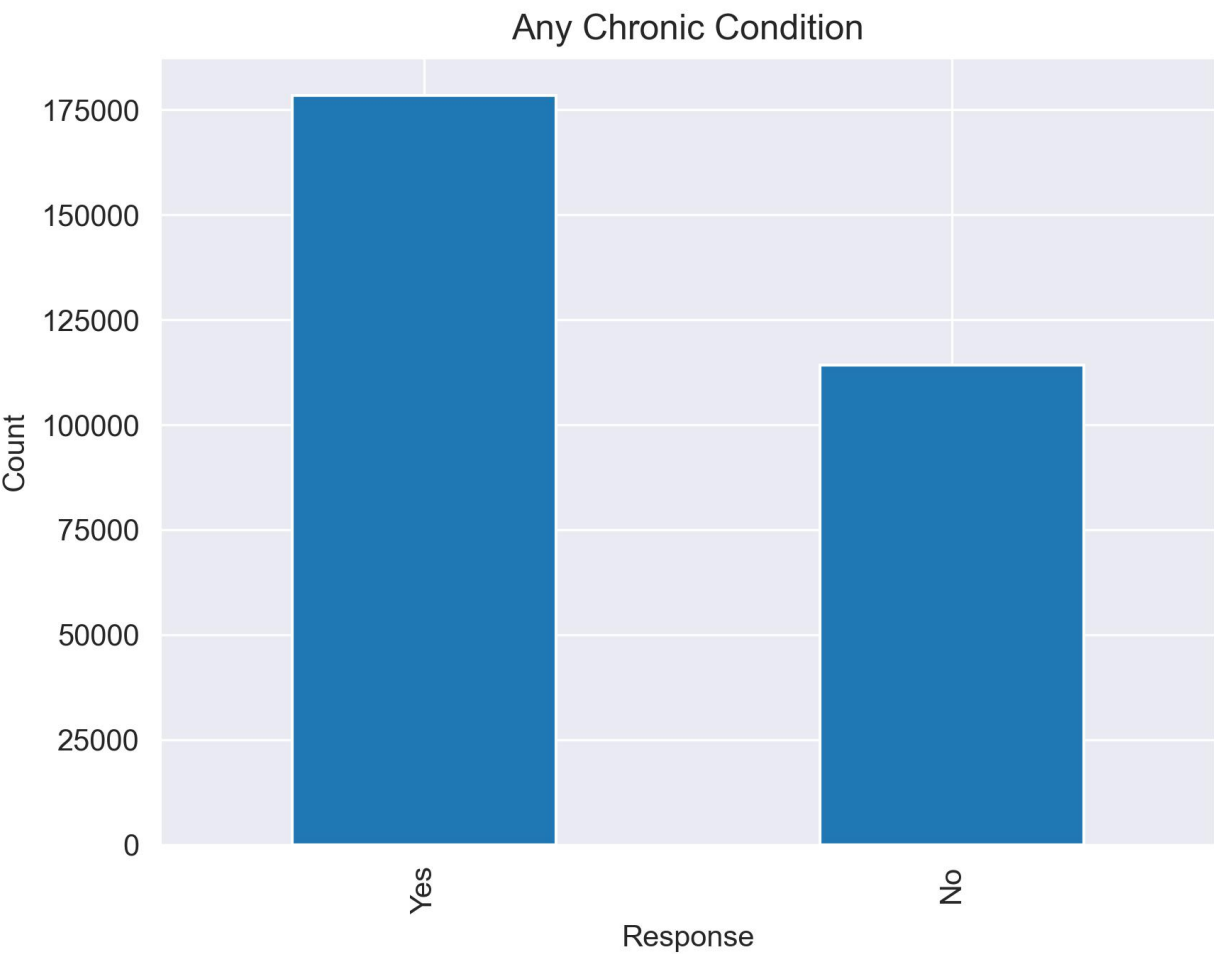


Fig 4: Any\_Pulmonary\_Response

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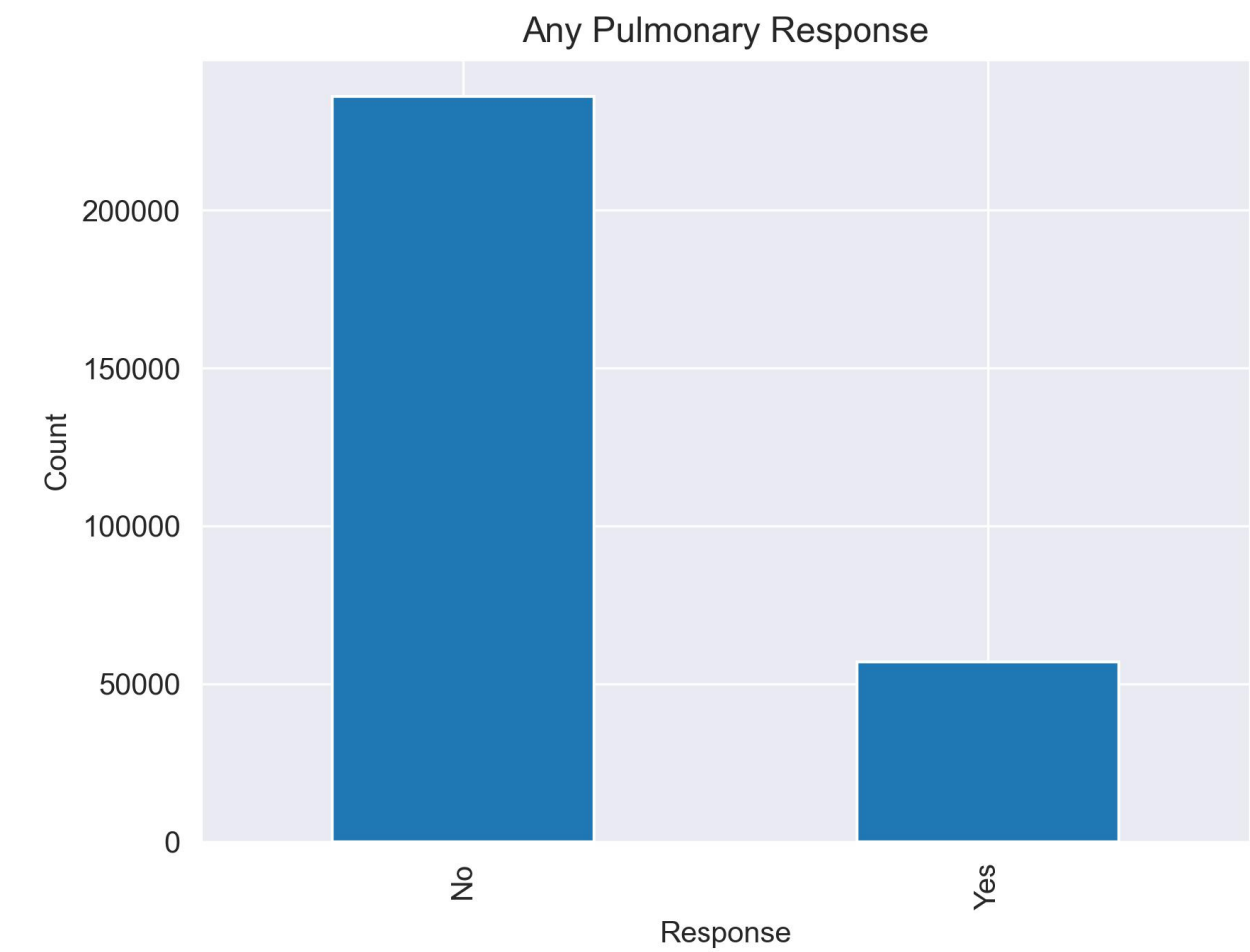


Fig 5: Distribution\_of\_BLIND

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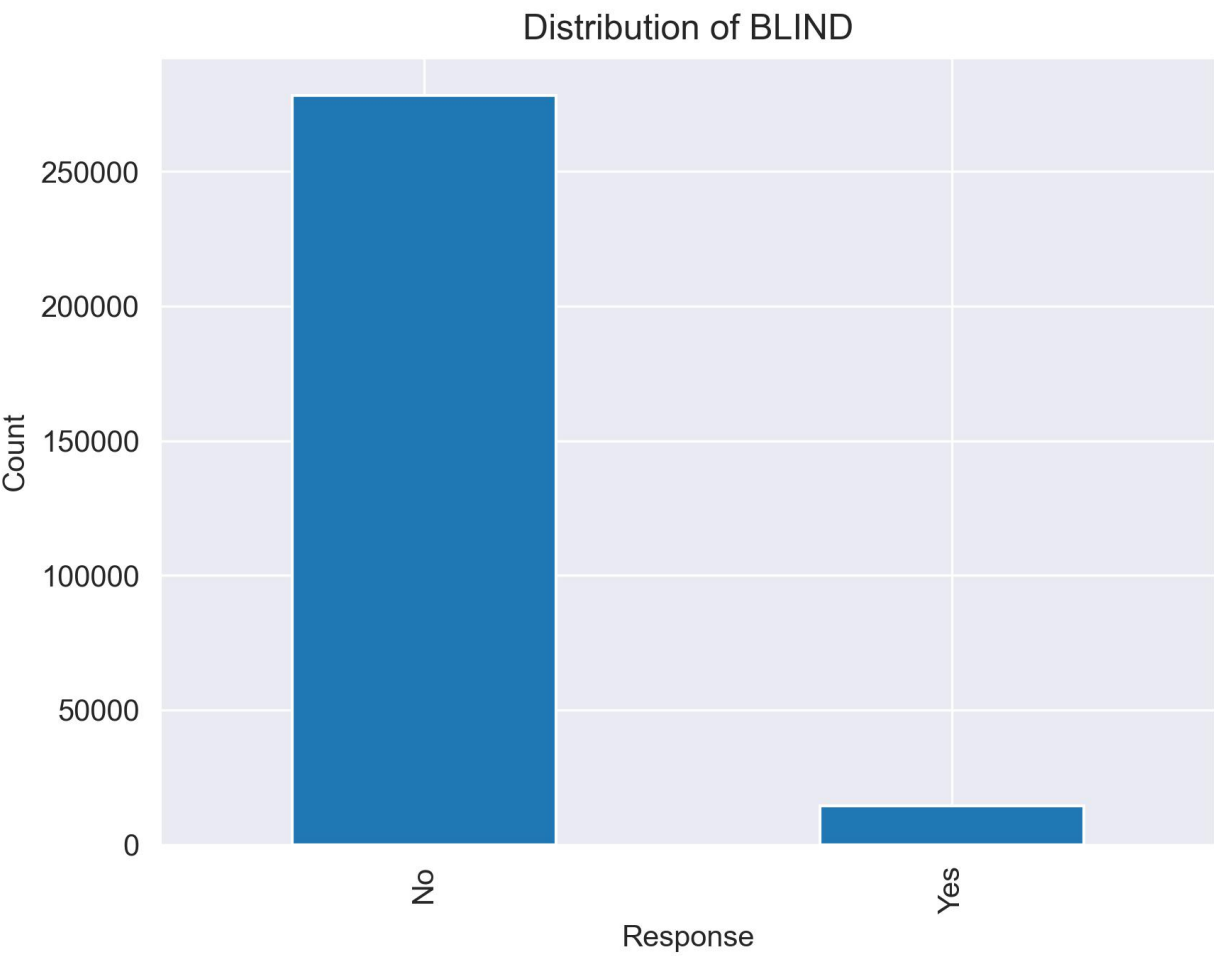


Fig 6: Distribution\_of\_COVIDPO1

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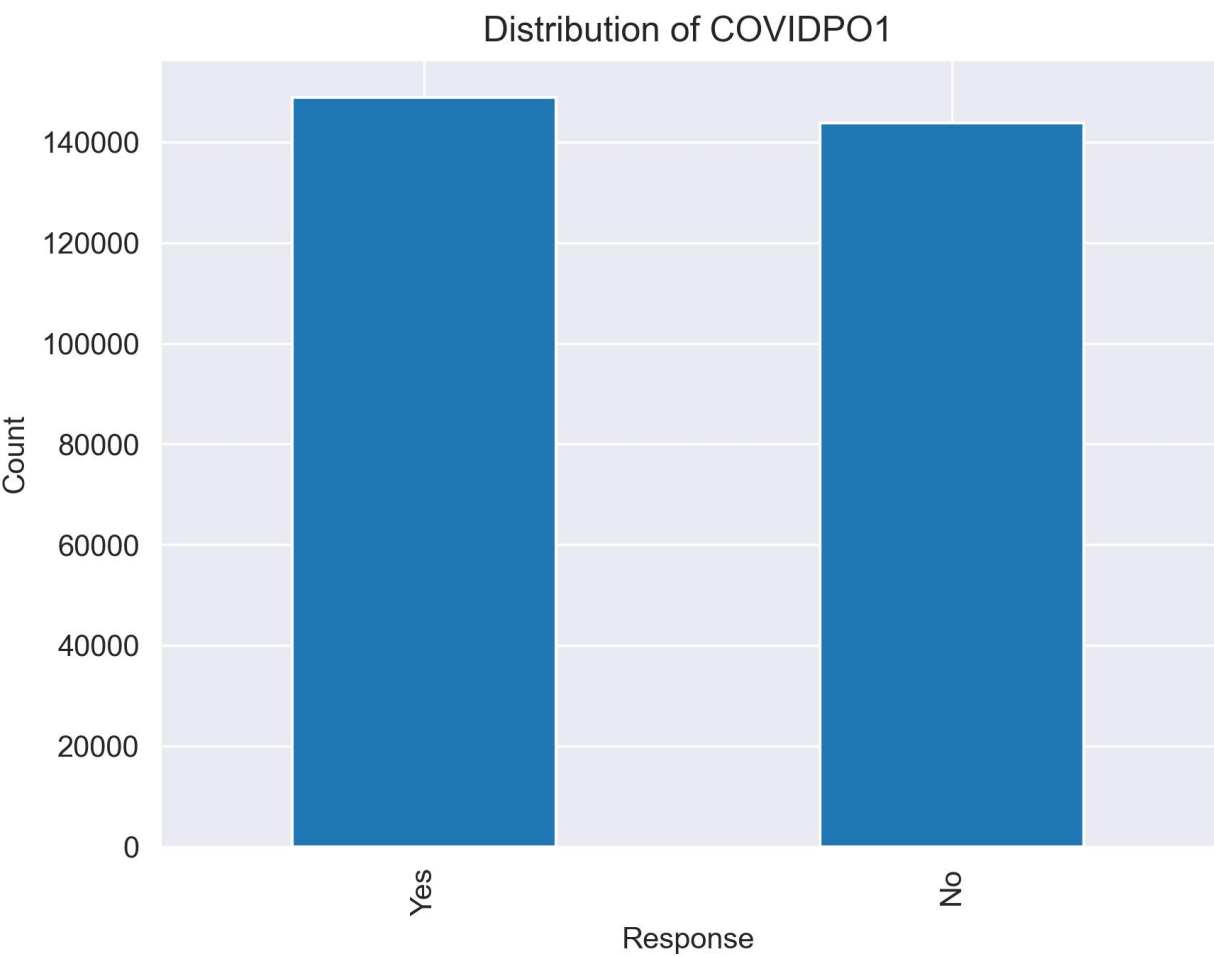


Fig 7: Distribution\_of\_DEAF

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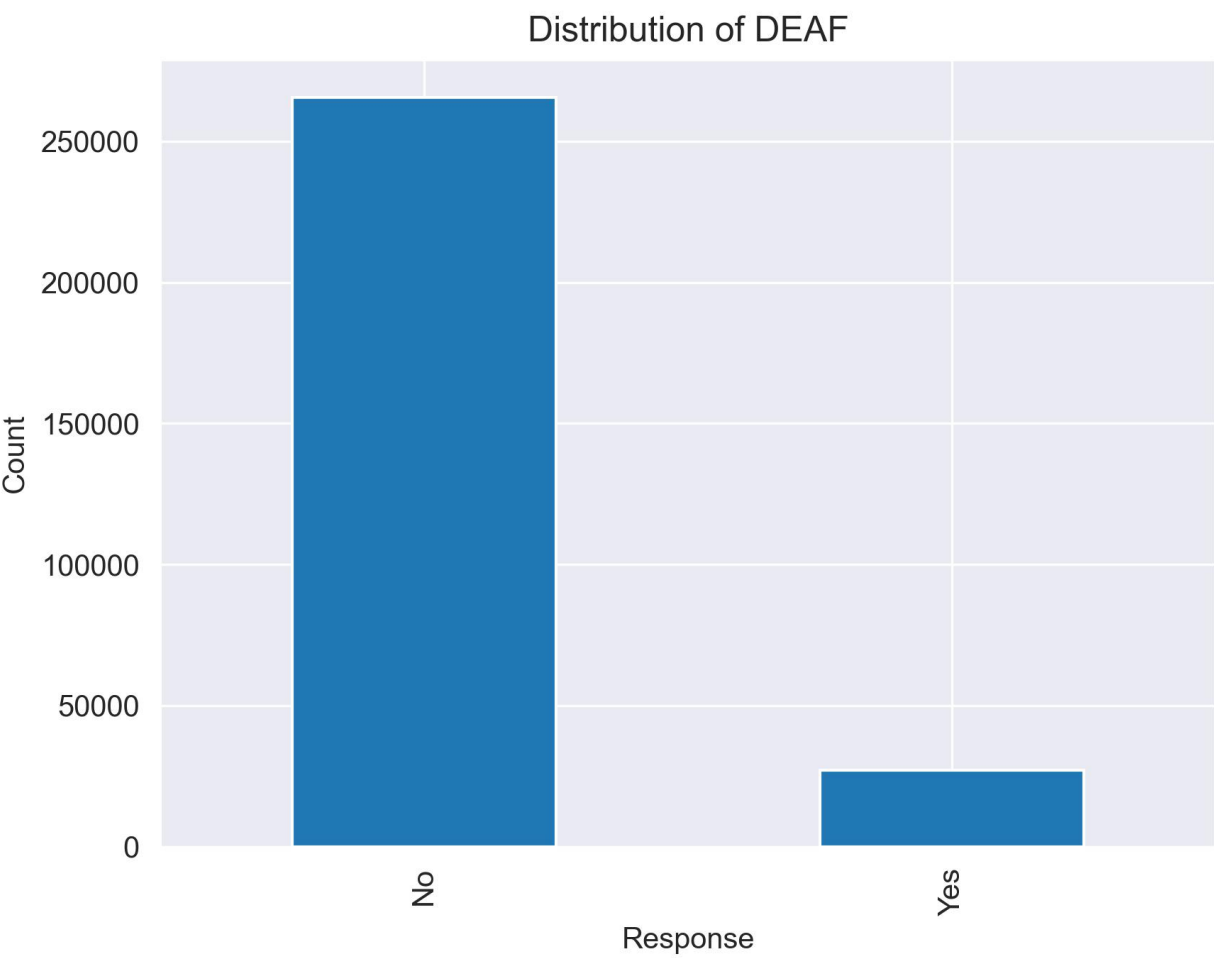


Fig 8: Distribution\_of\_DECIDE

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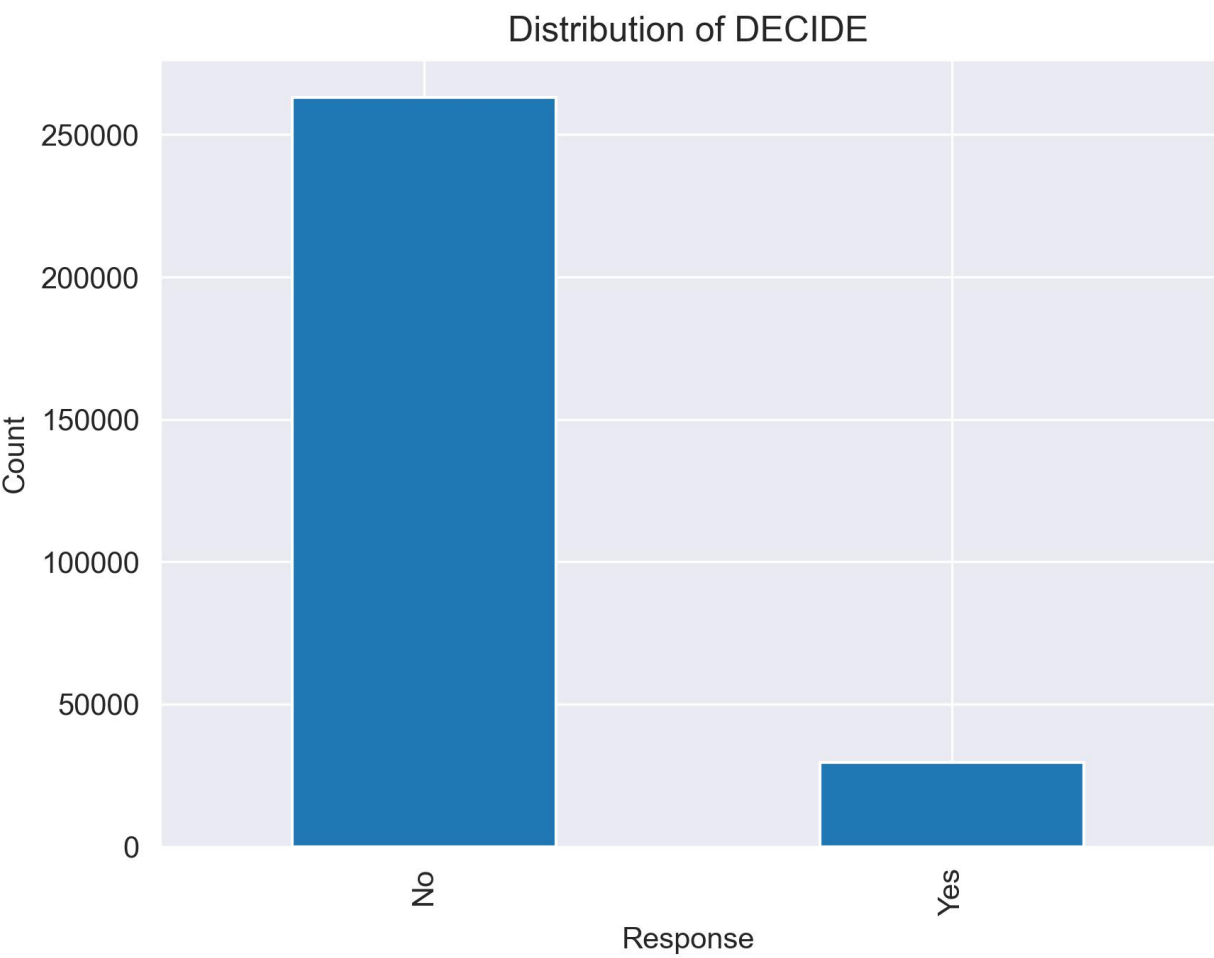




Fig 9: Distribution\_of\_DIFFALON

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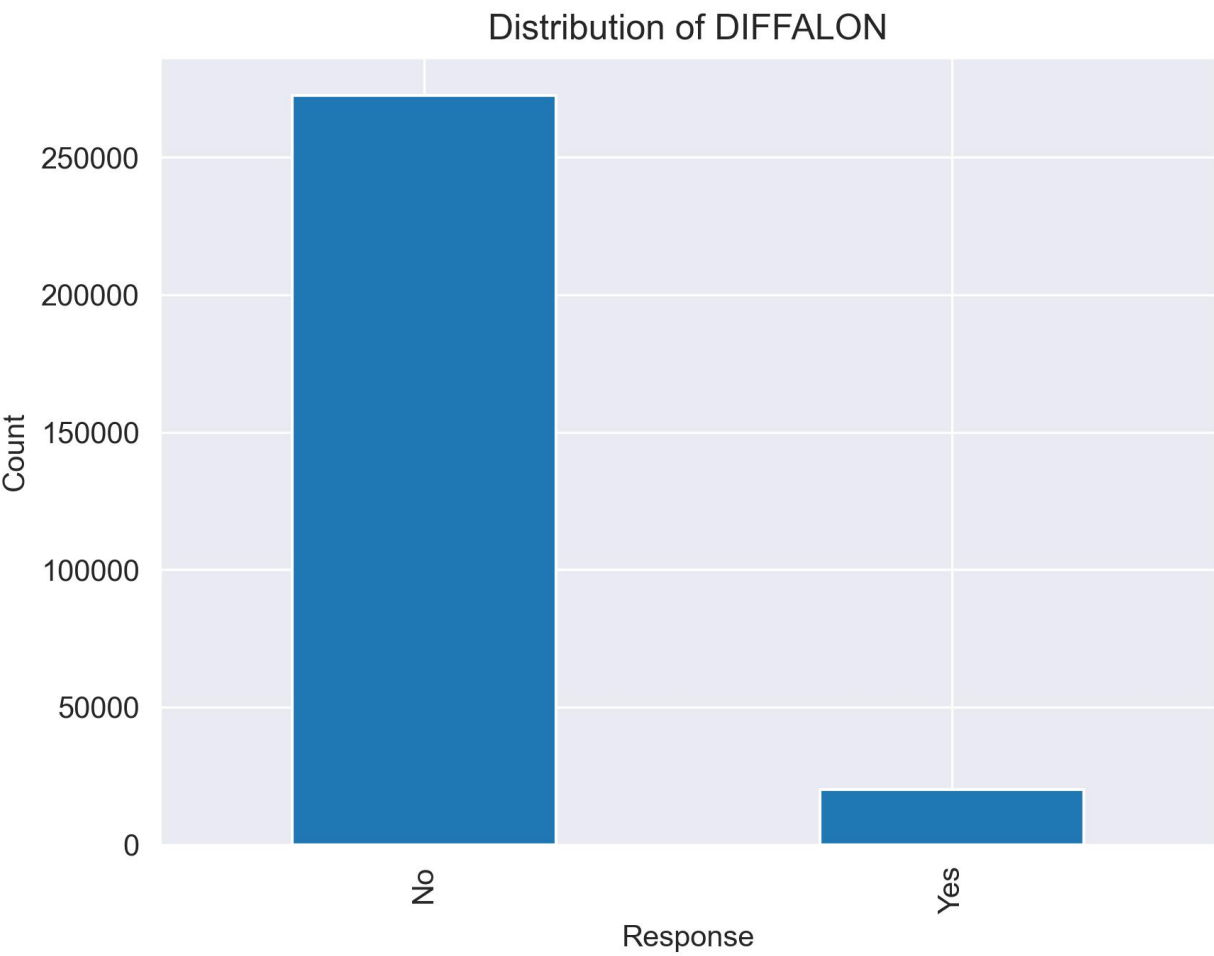


Fig 10: Distribution\_of\_DIFFDRES

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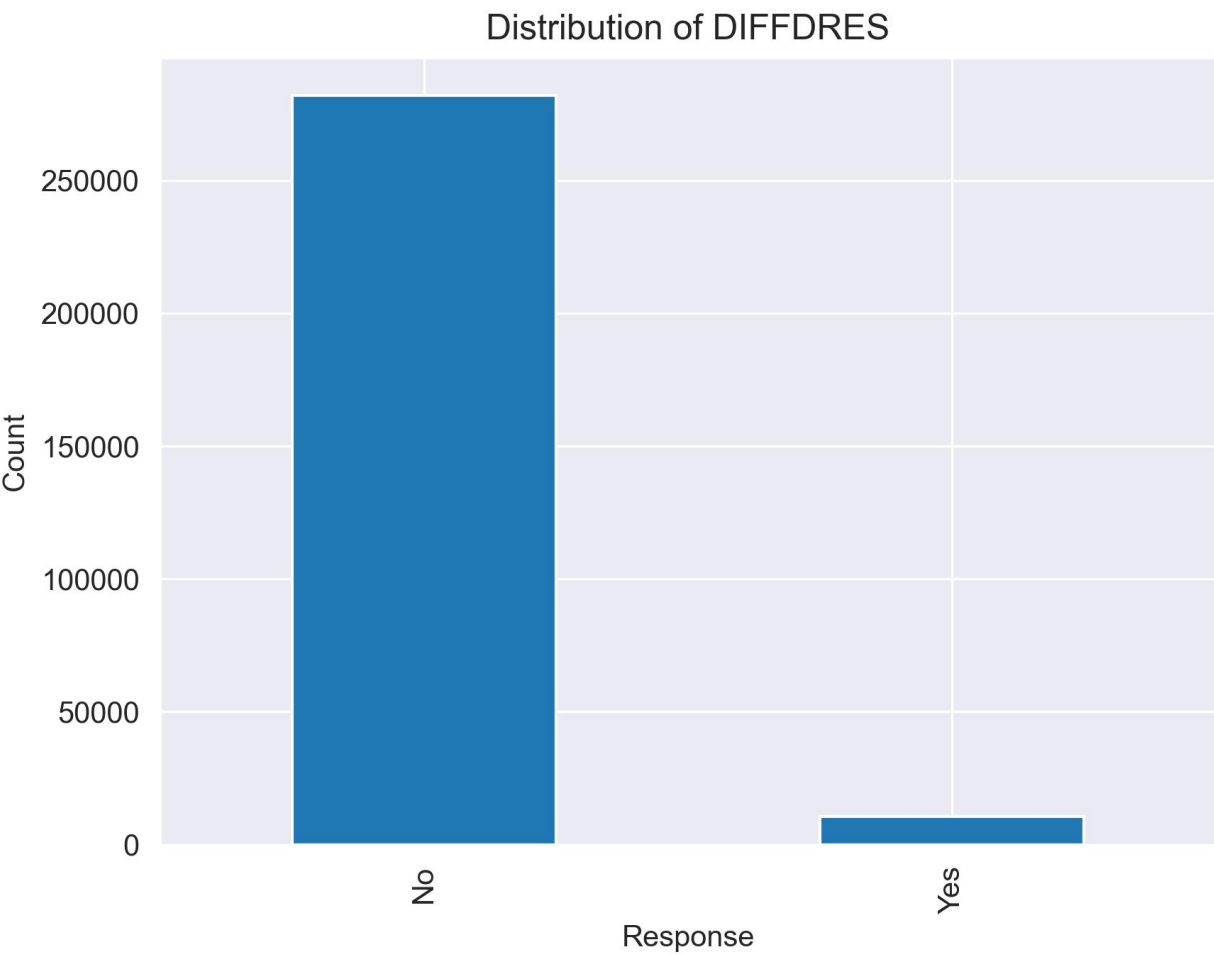


Fig 11: Distribution\_of\_DIFFWALK

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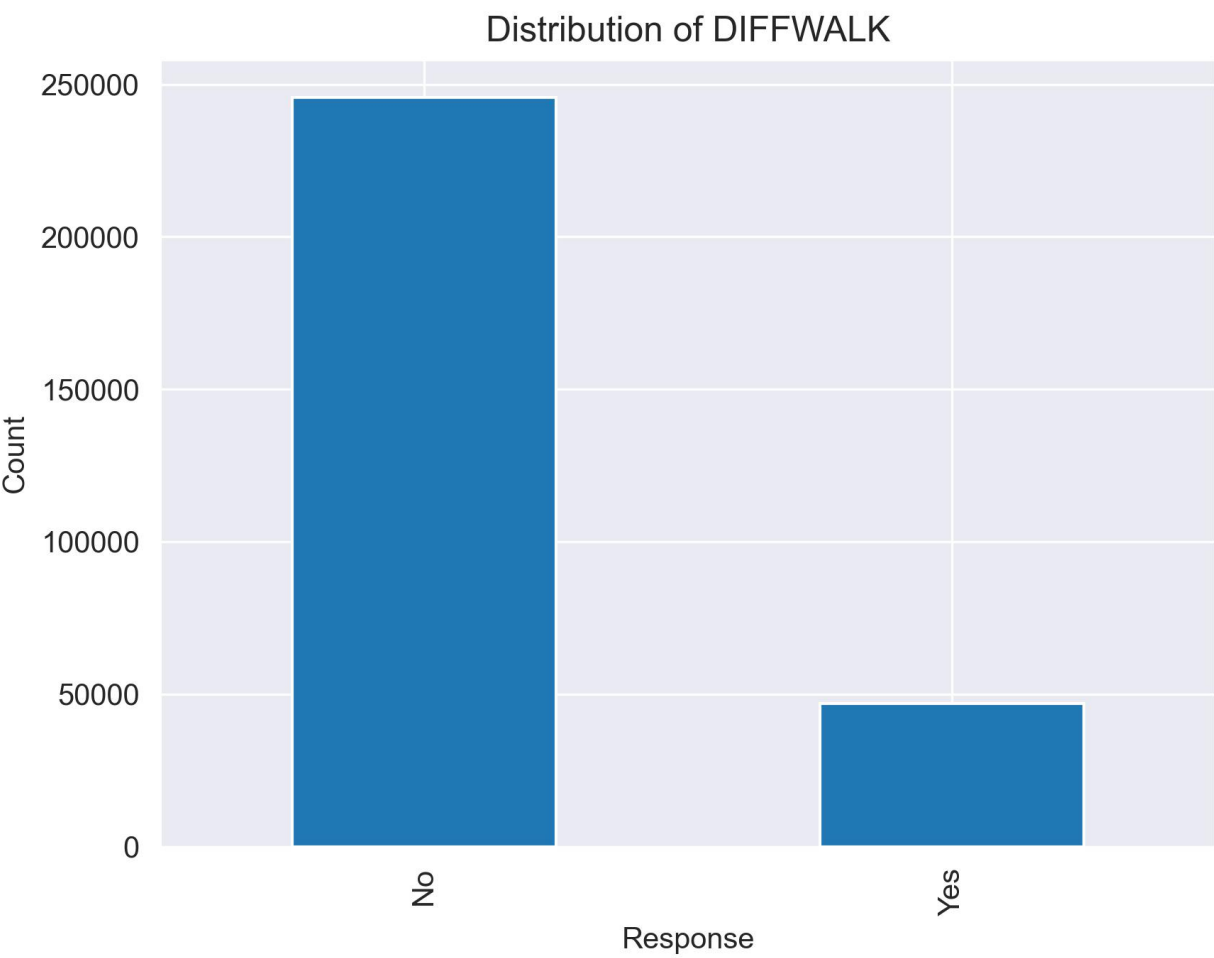


Fig 12: Distribution\_of\_ECIGNOW2

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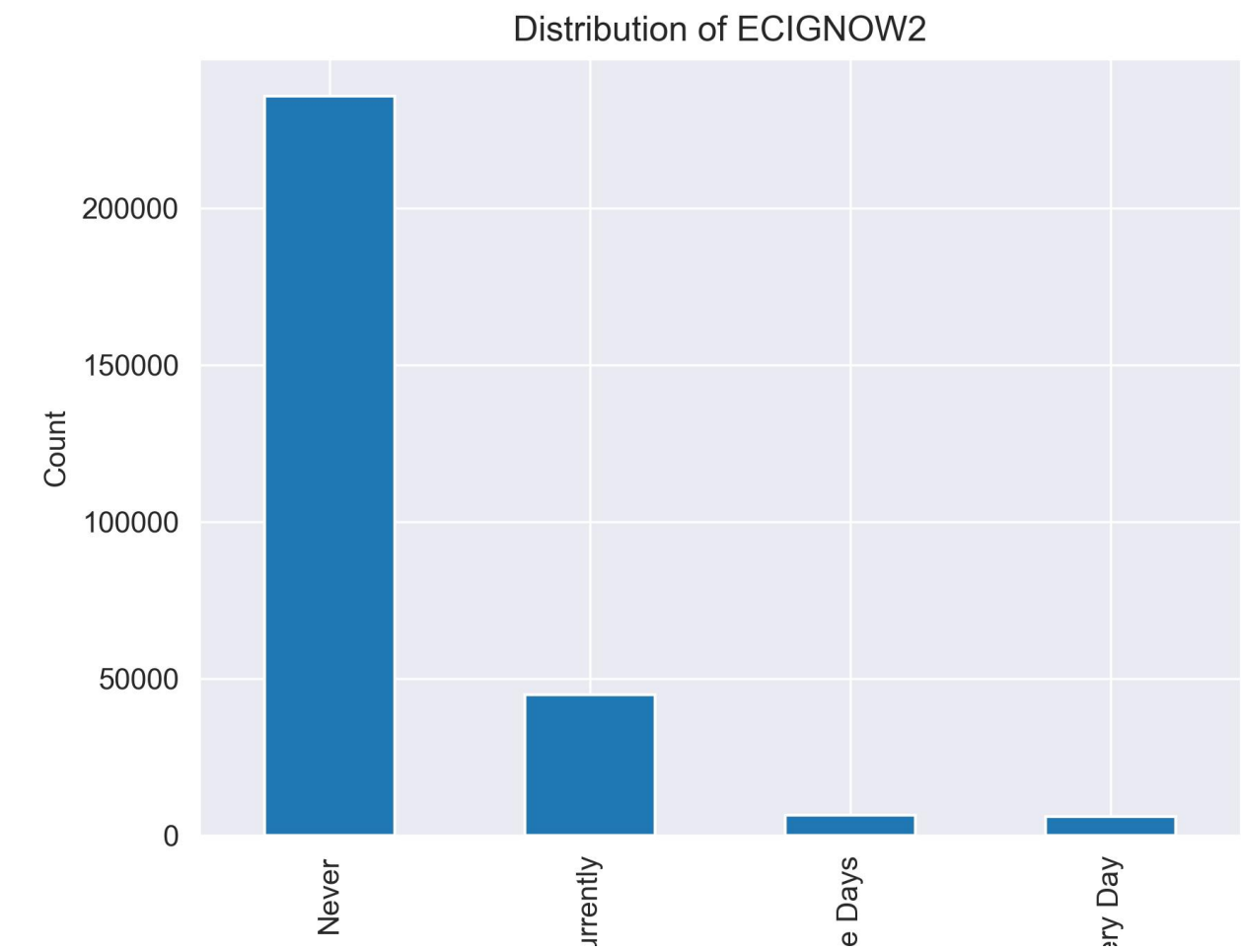


Fig 13: Distribution\_of\_EDUCA

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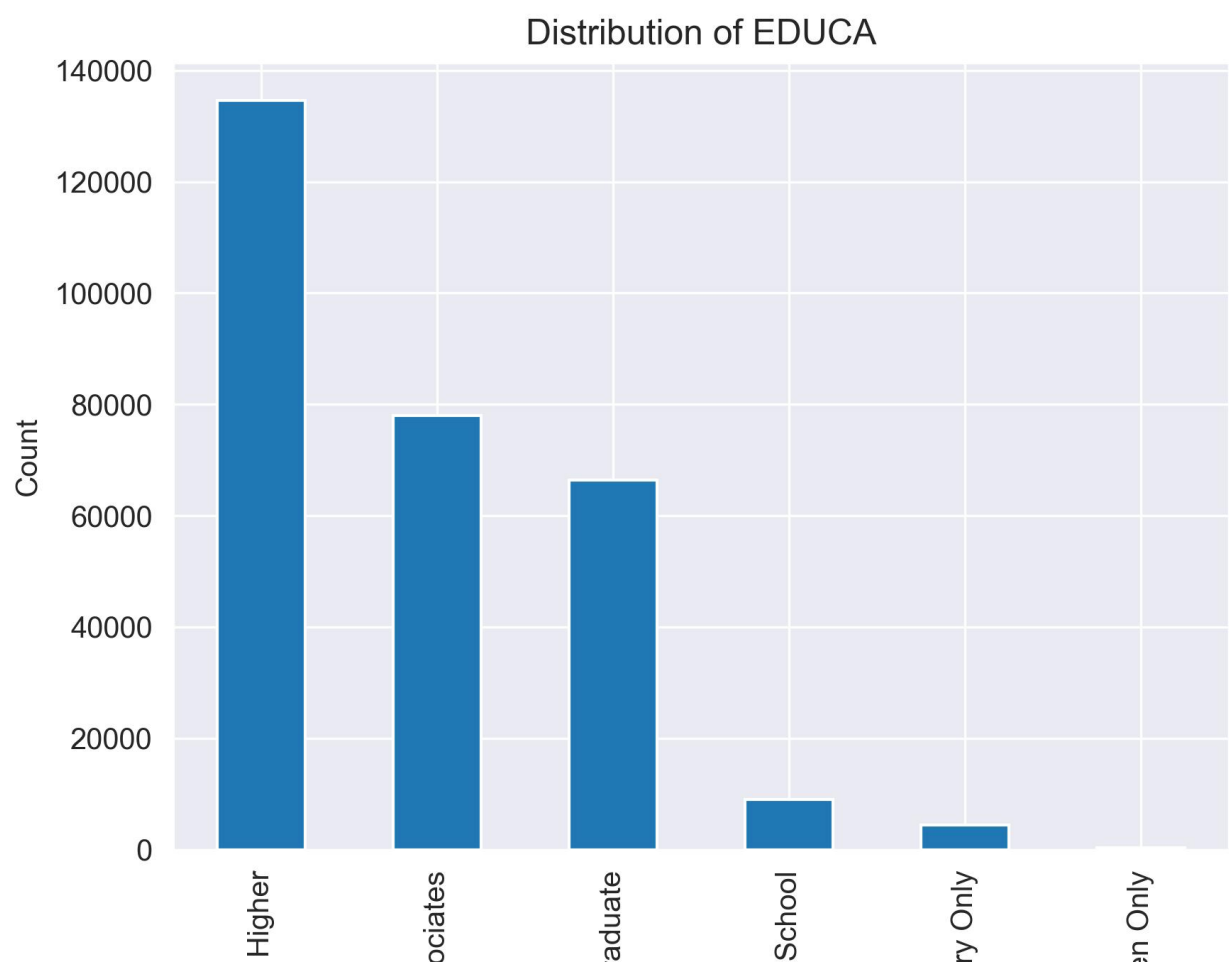


Fig 14: Distribution\_of\_EXERANY2

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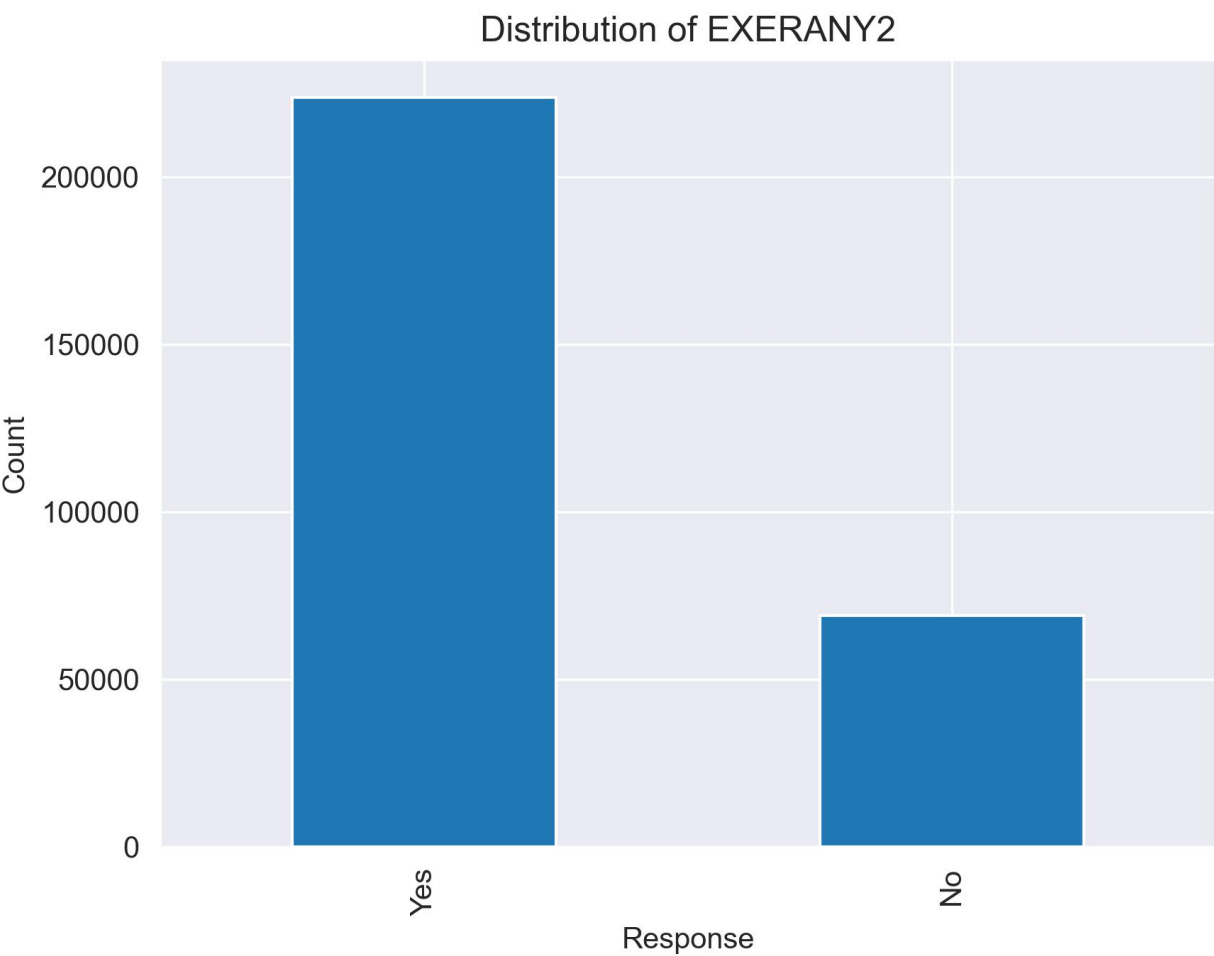


Fig 15: Distribution\_of\_FLUSHOT7

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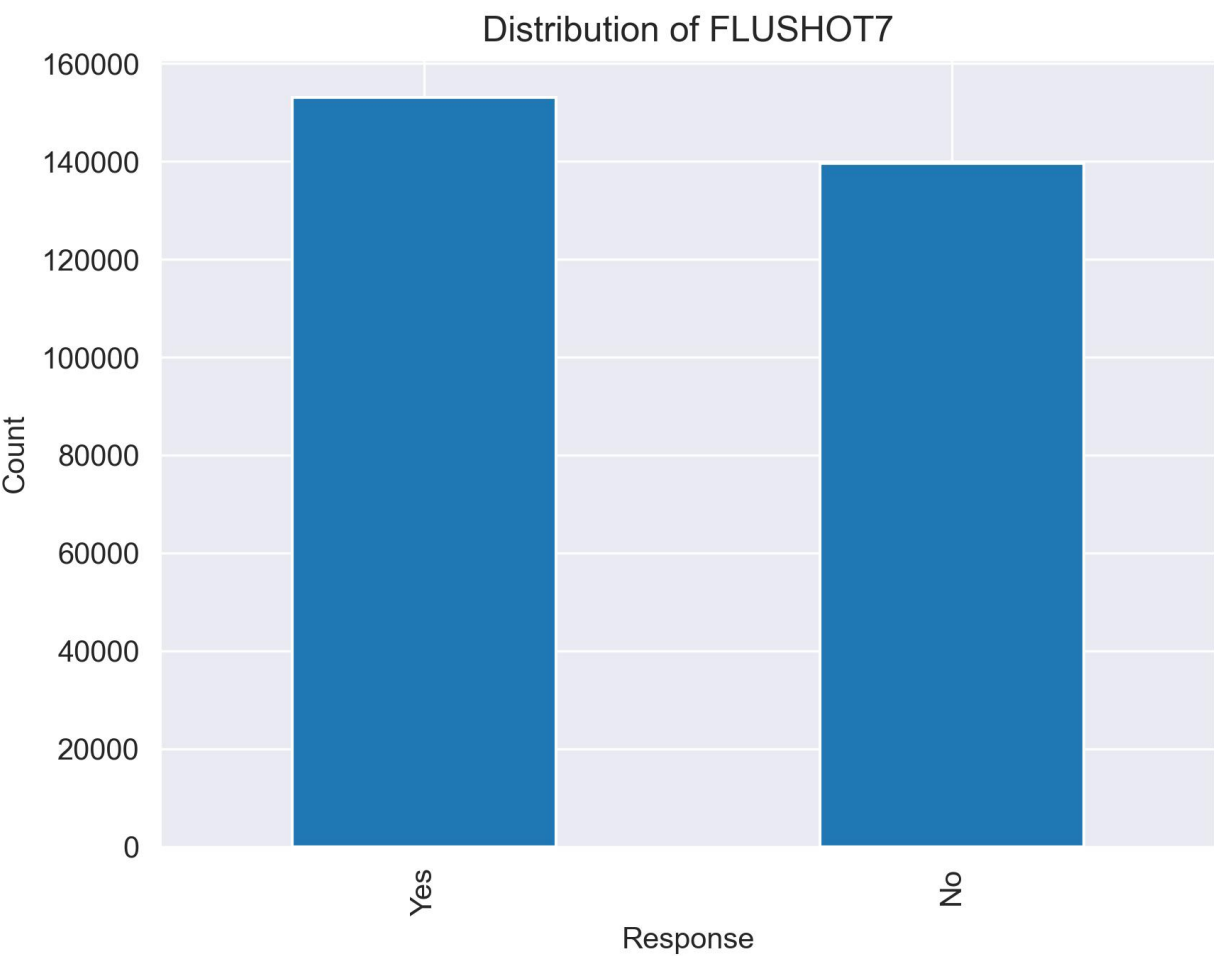


Fig 16: Distribution\_of\_GENHLTH

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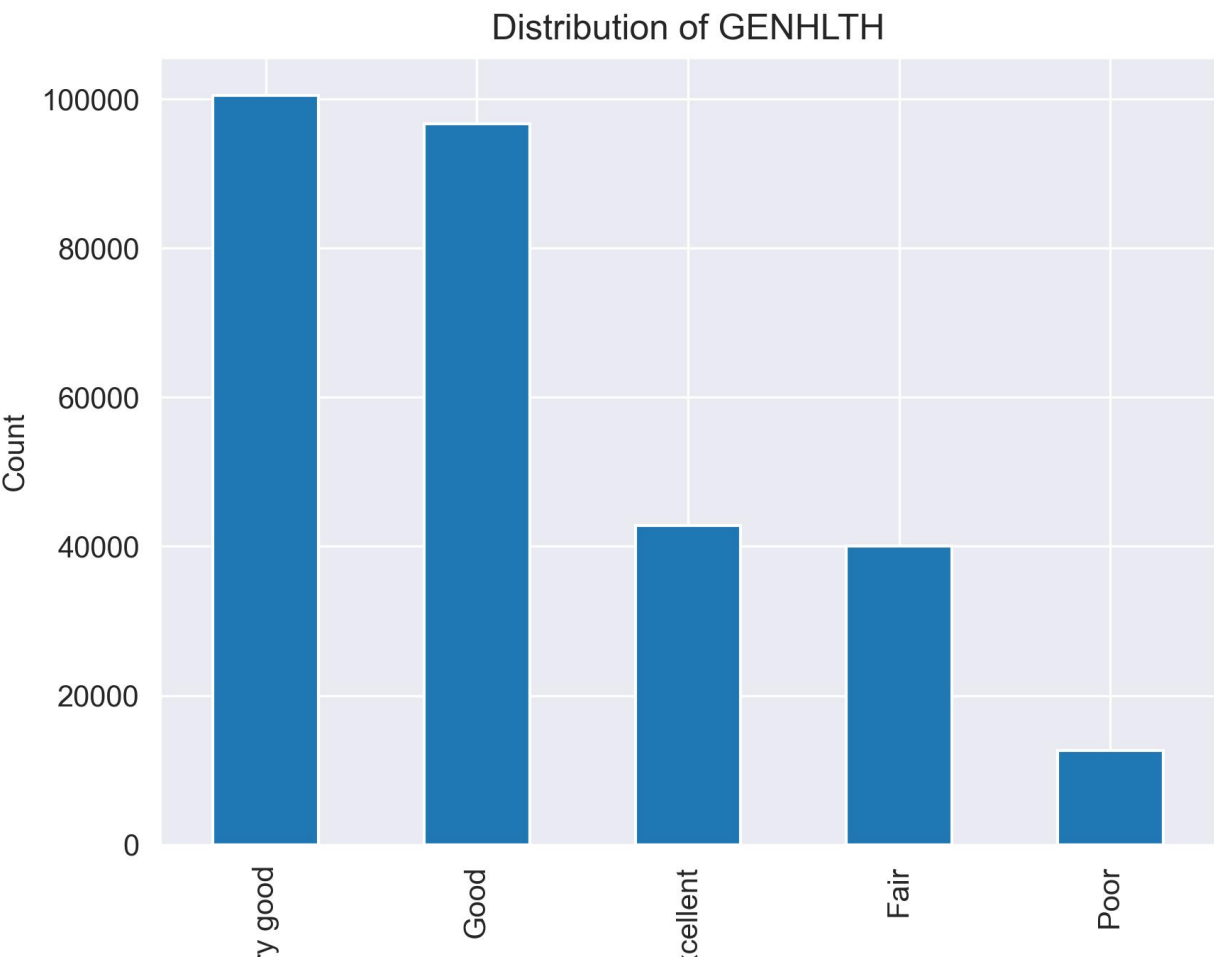




Fig 17: Distribution\_of\_PNEUVAC4

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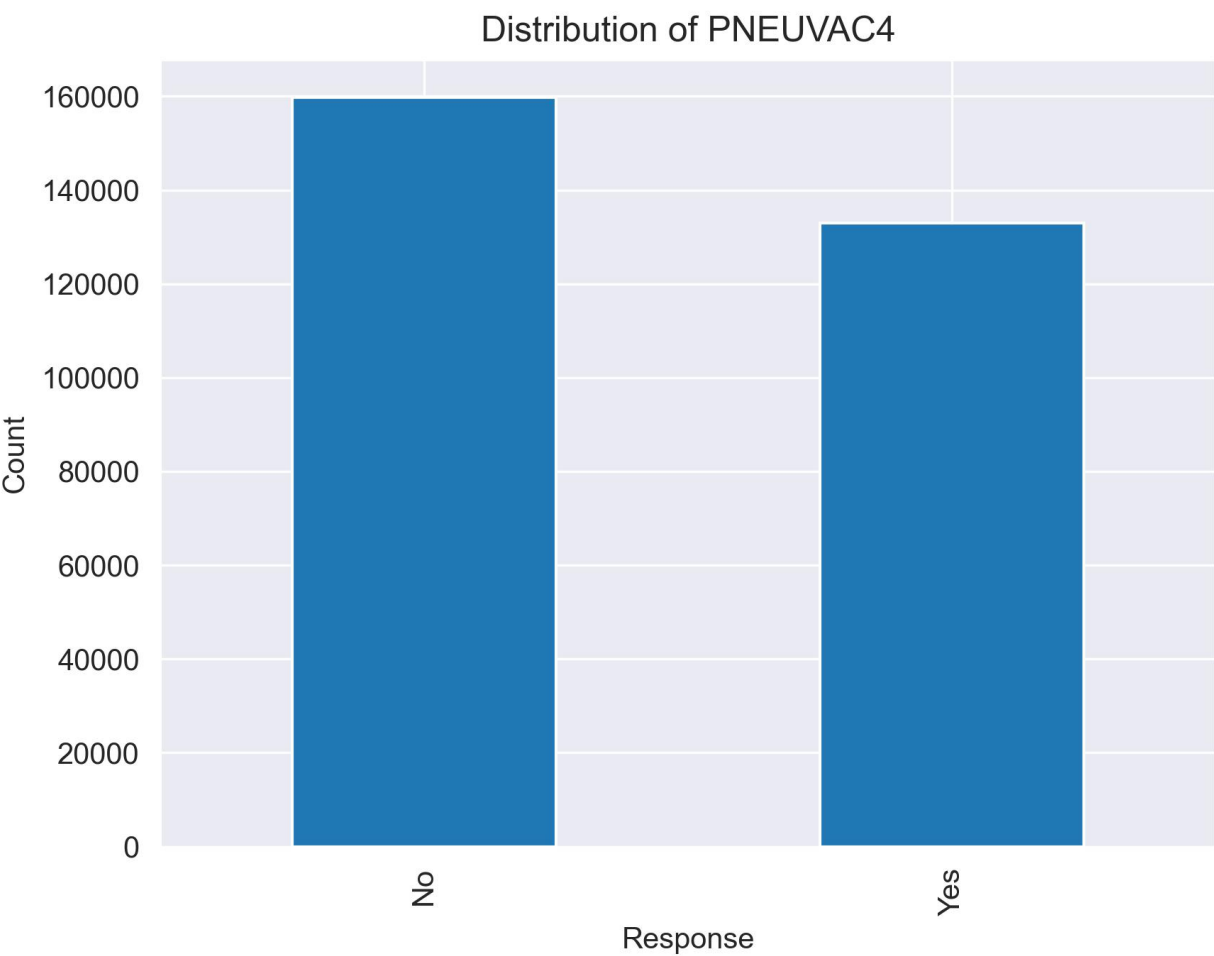


Fig 18: Distribution\_of\_SEATBELT

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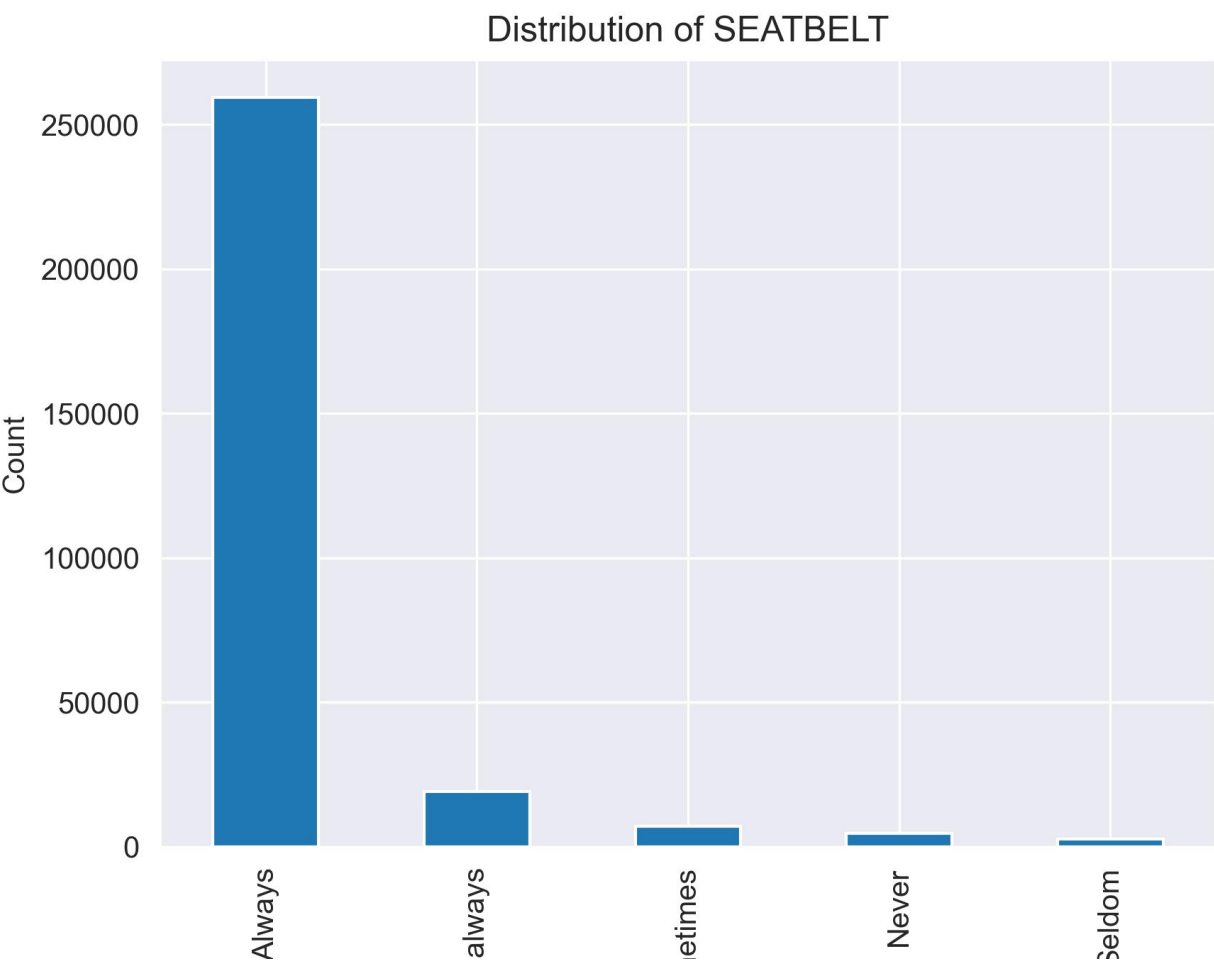


Fig 19: Distribution\_of\_SMOKE100

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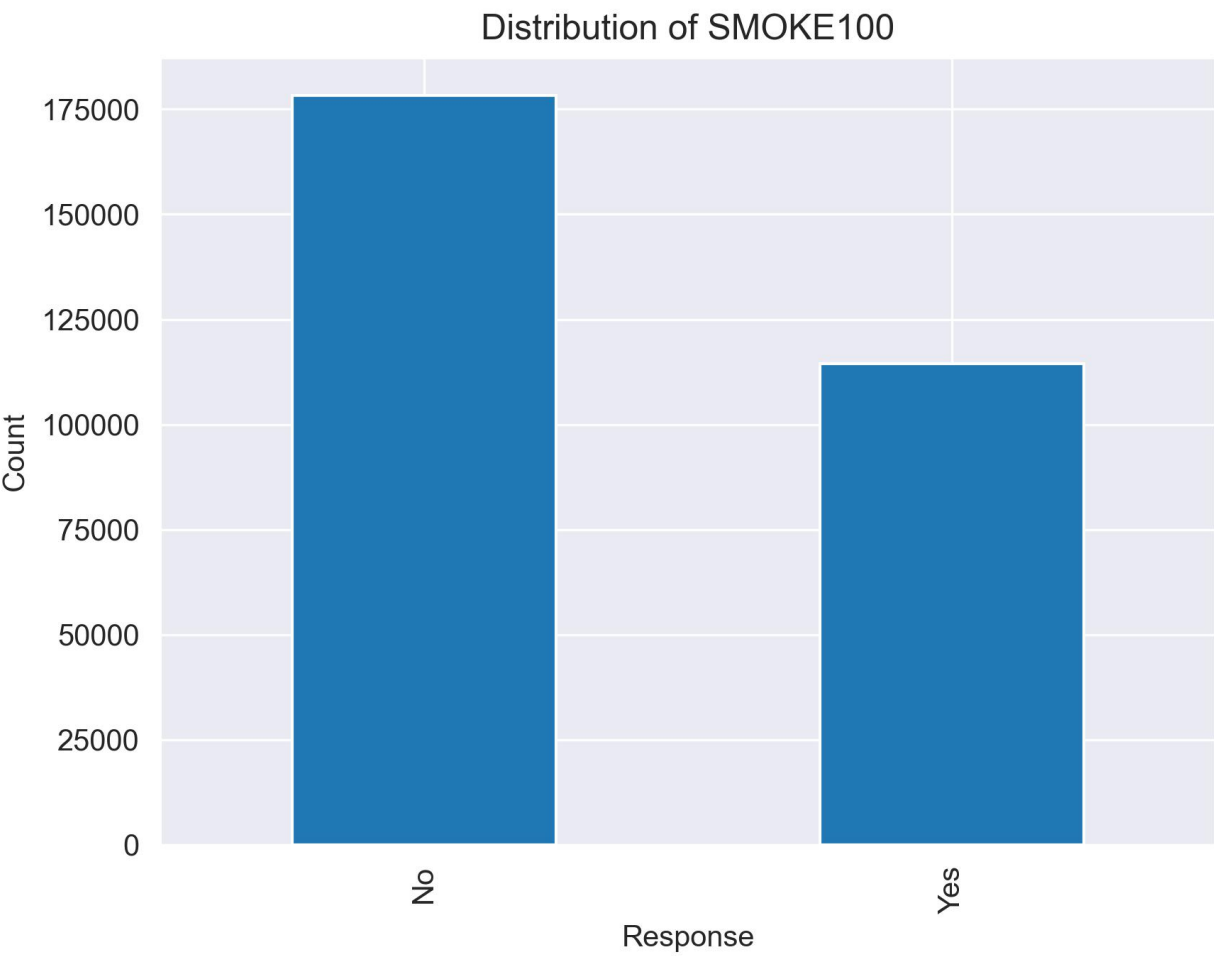


Fig 20: Distribution\_of\_TOLDHI3

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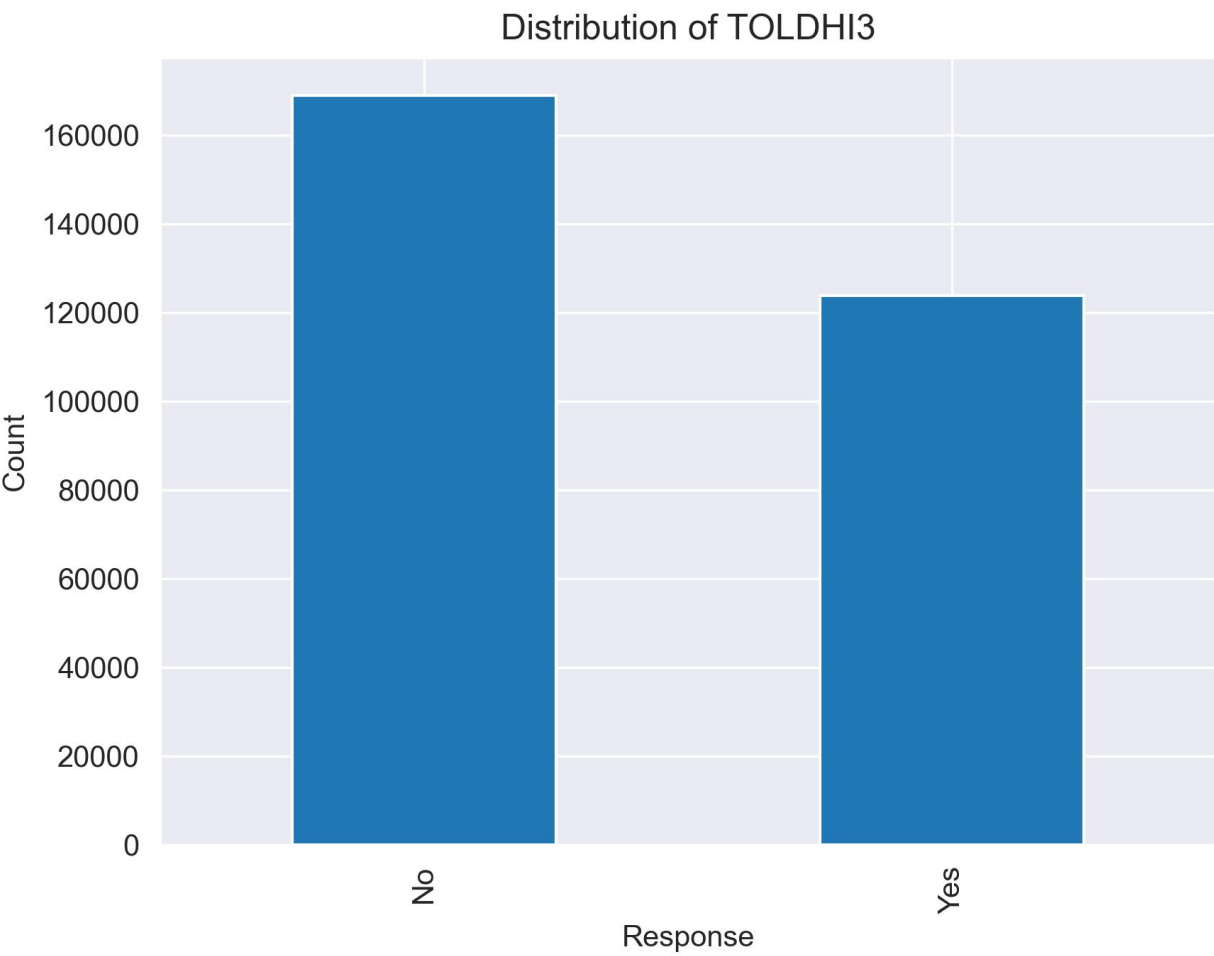


Fig 21: Kmode\_elbow

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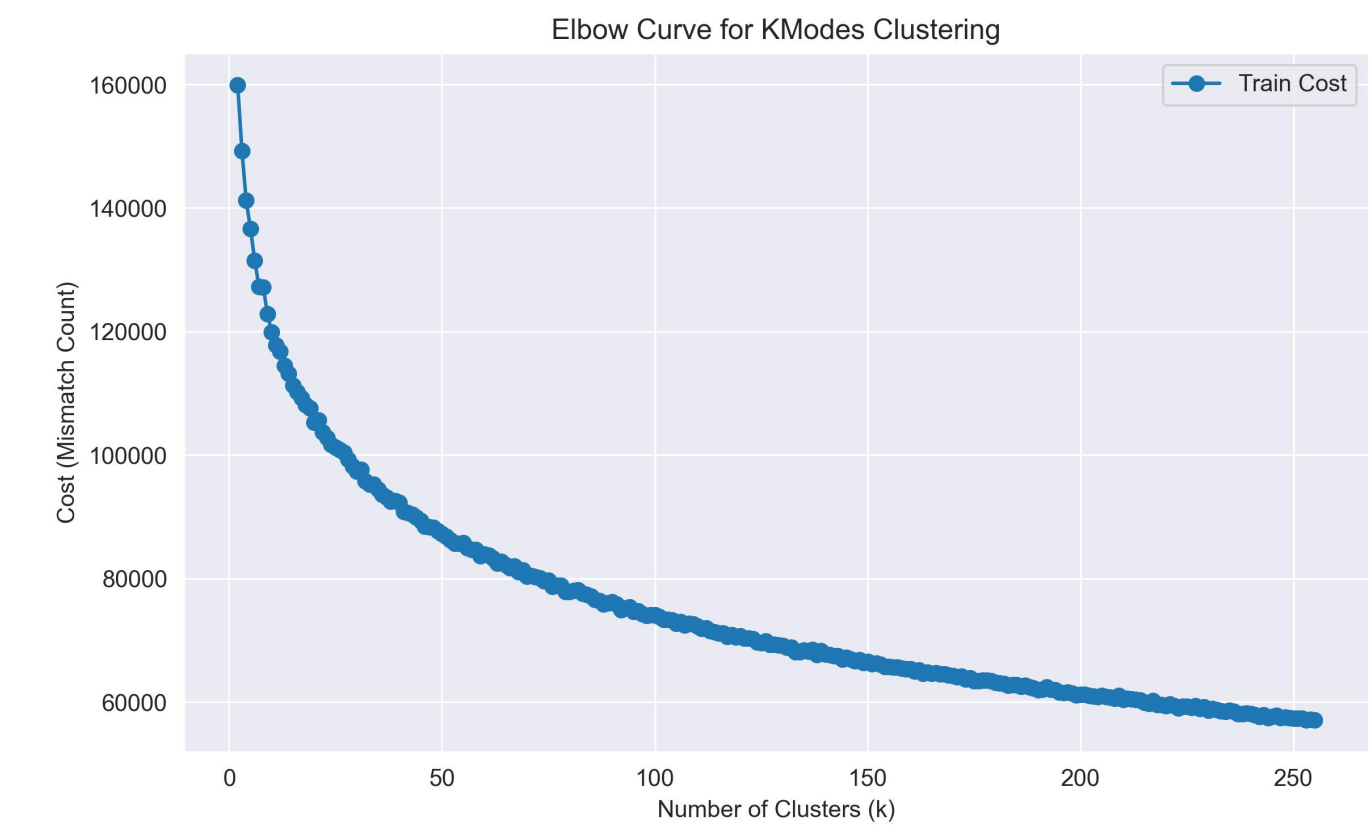


Fig 22: Percentage\_of\_Yes\_Responses\_by\_Condition

Created: 2025-06-21 00:12:47

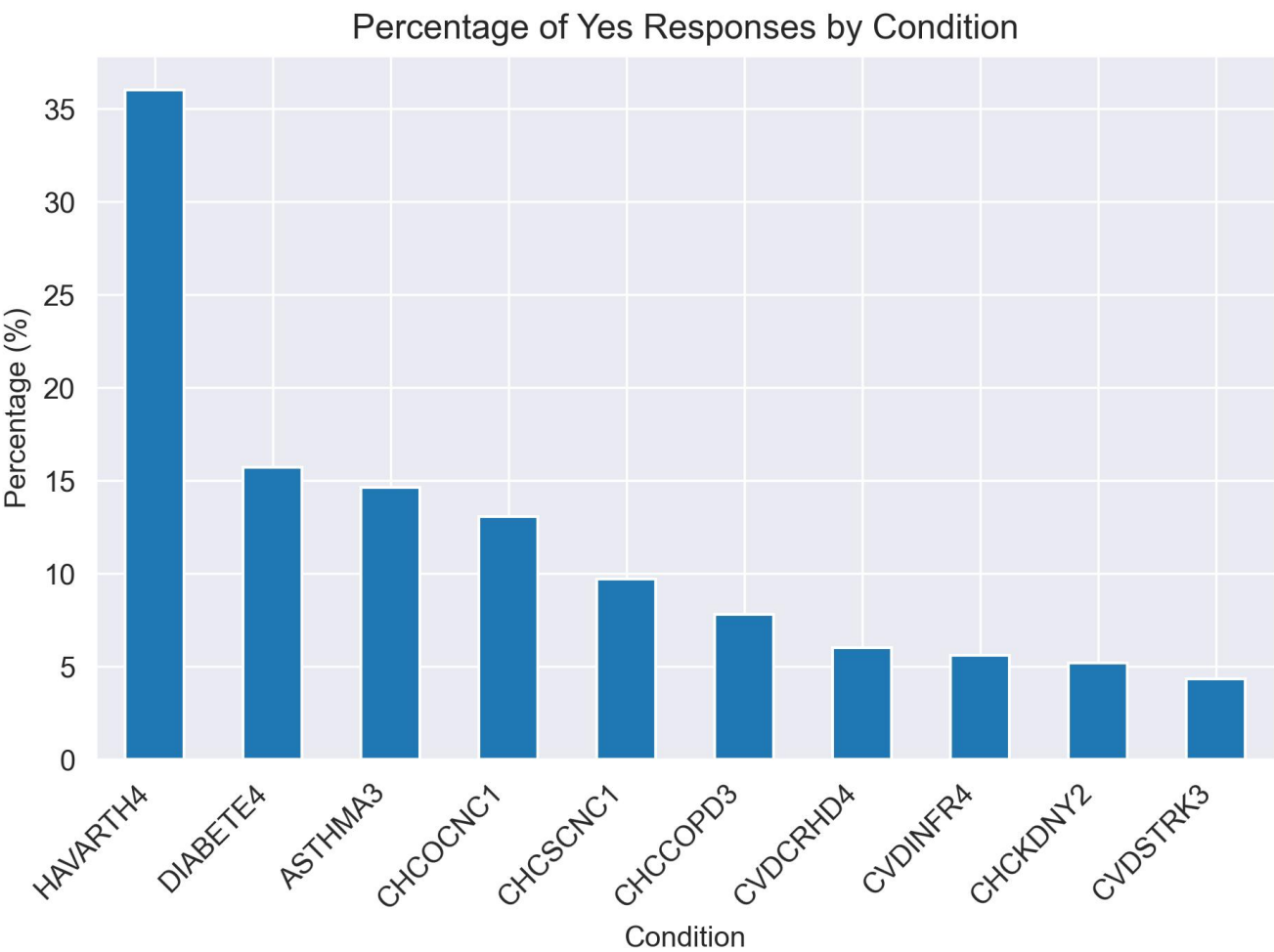


Fig 23: TFLOW\_silhouette

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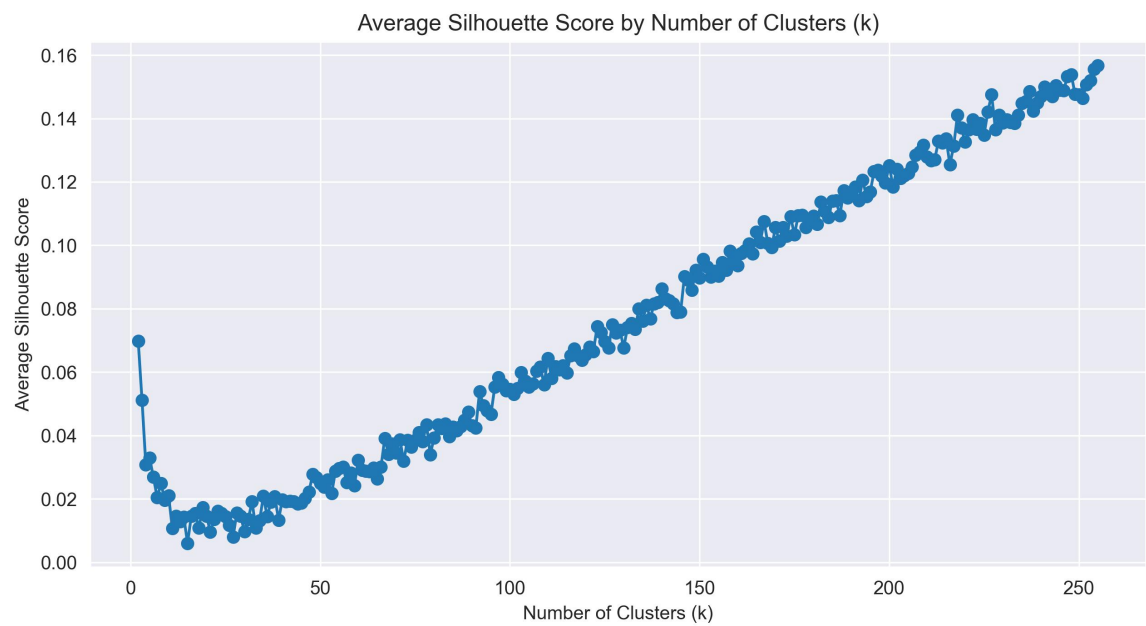


Fig 24: chronic\_condition\_heatmap

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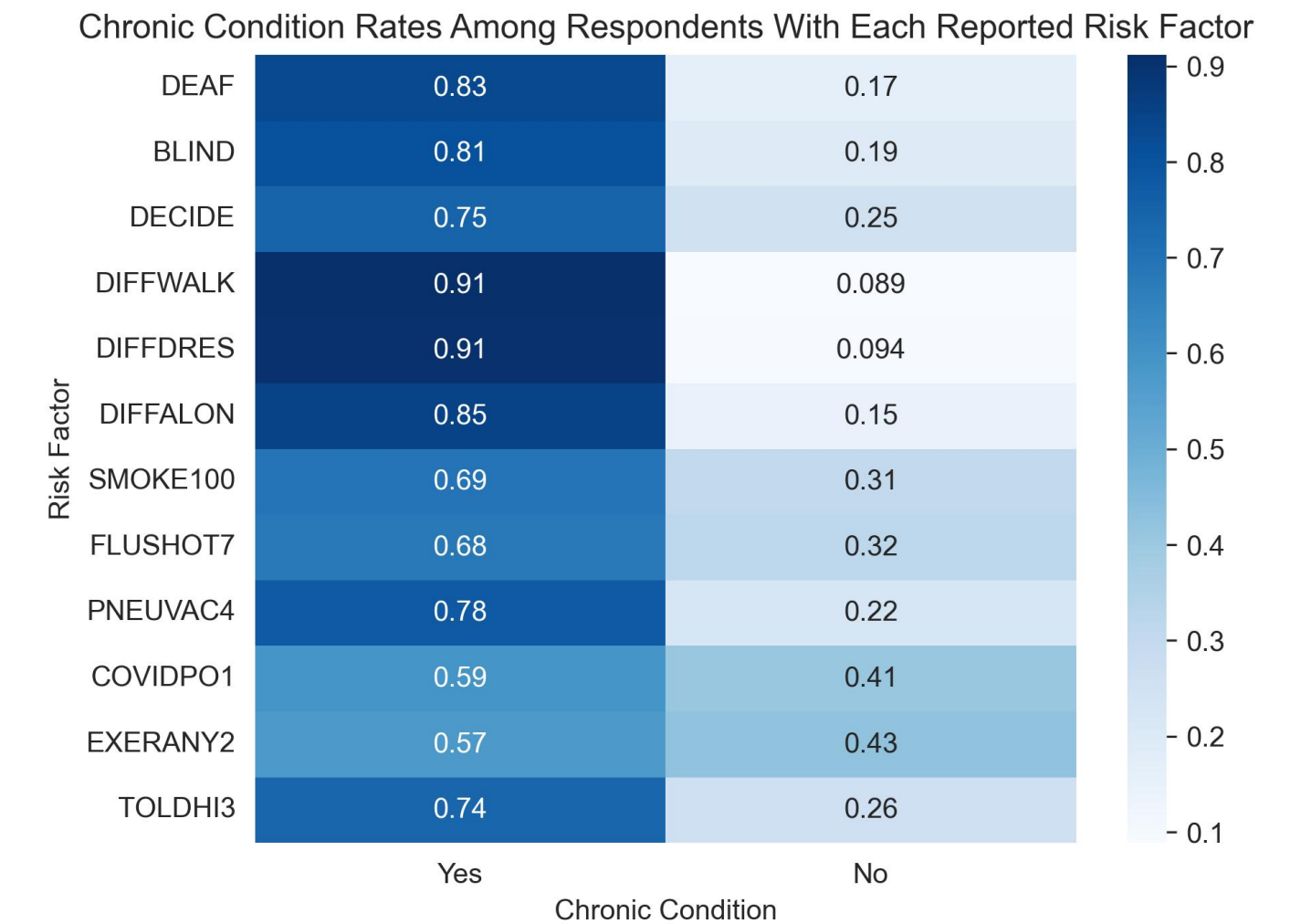




Fig 25: chronic\_vs\_ecignow2

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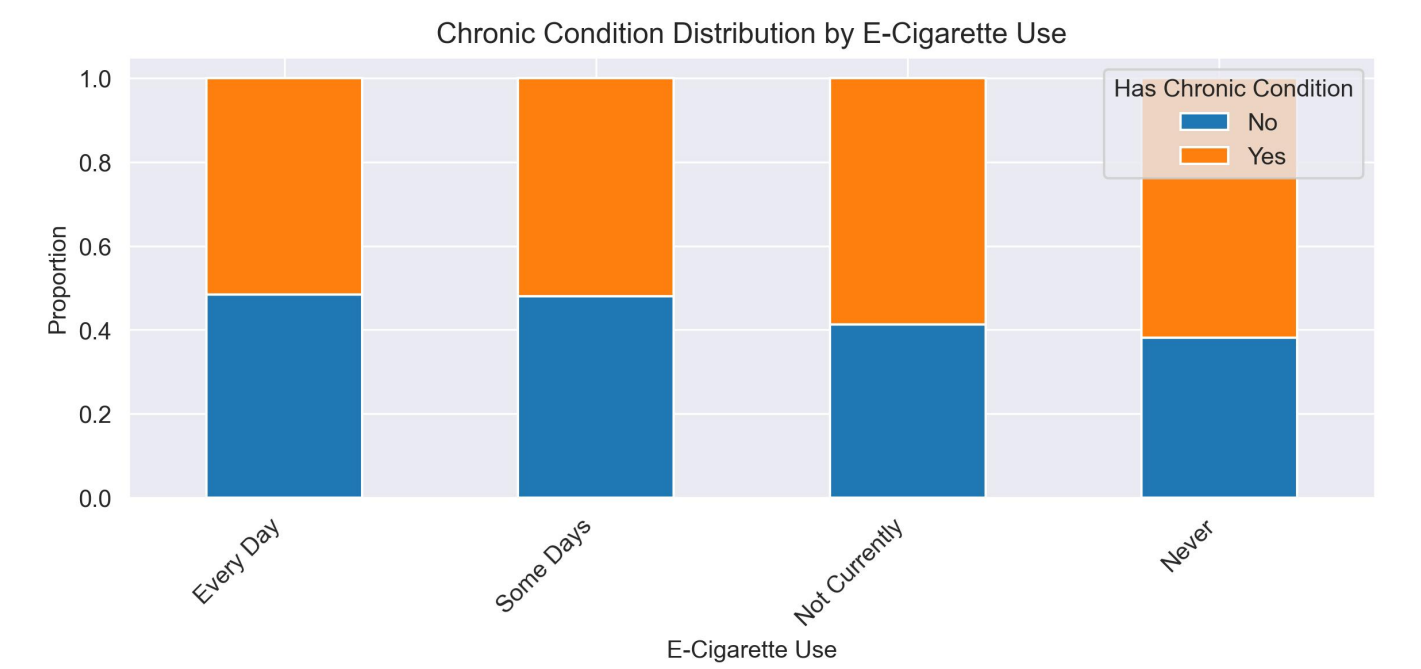


Fig 26: chronic\_vs\_genhlth

Created: 2025-06-21 00:12:47

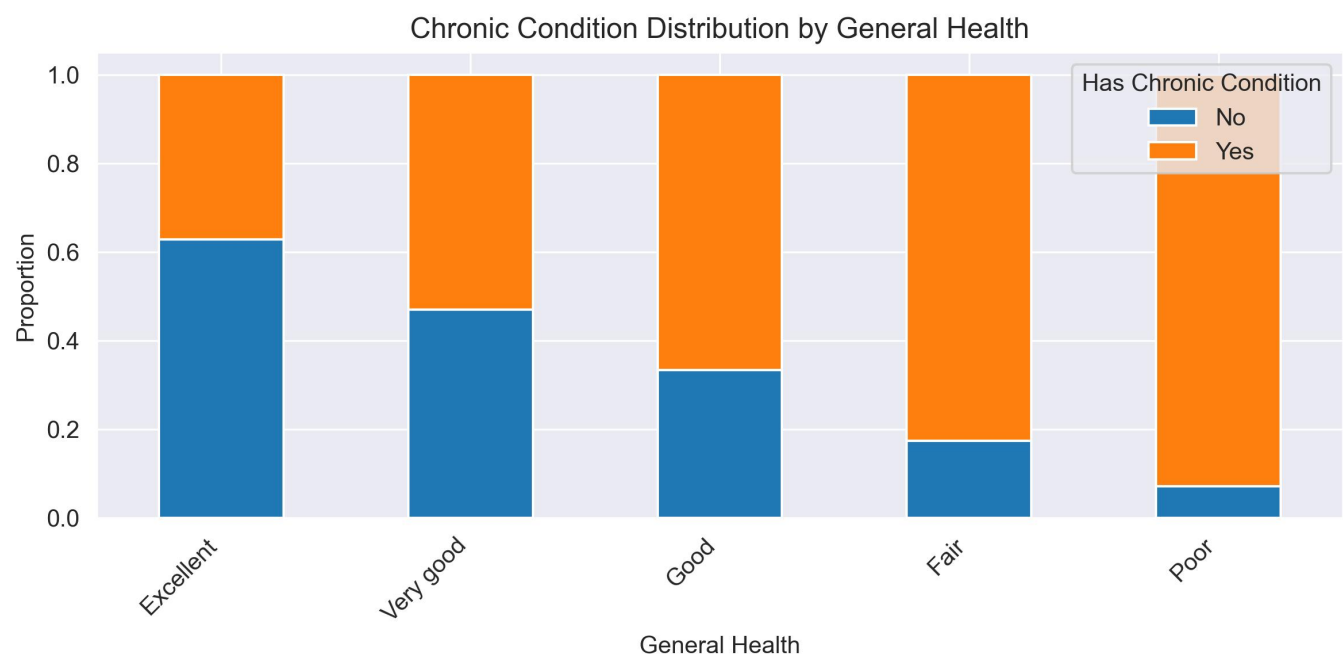


Fig 27: chronic\_vs\_seatbelt

Created: 2025-06-21 00:12:47

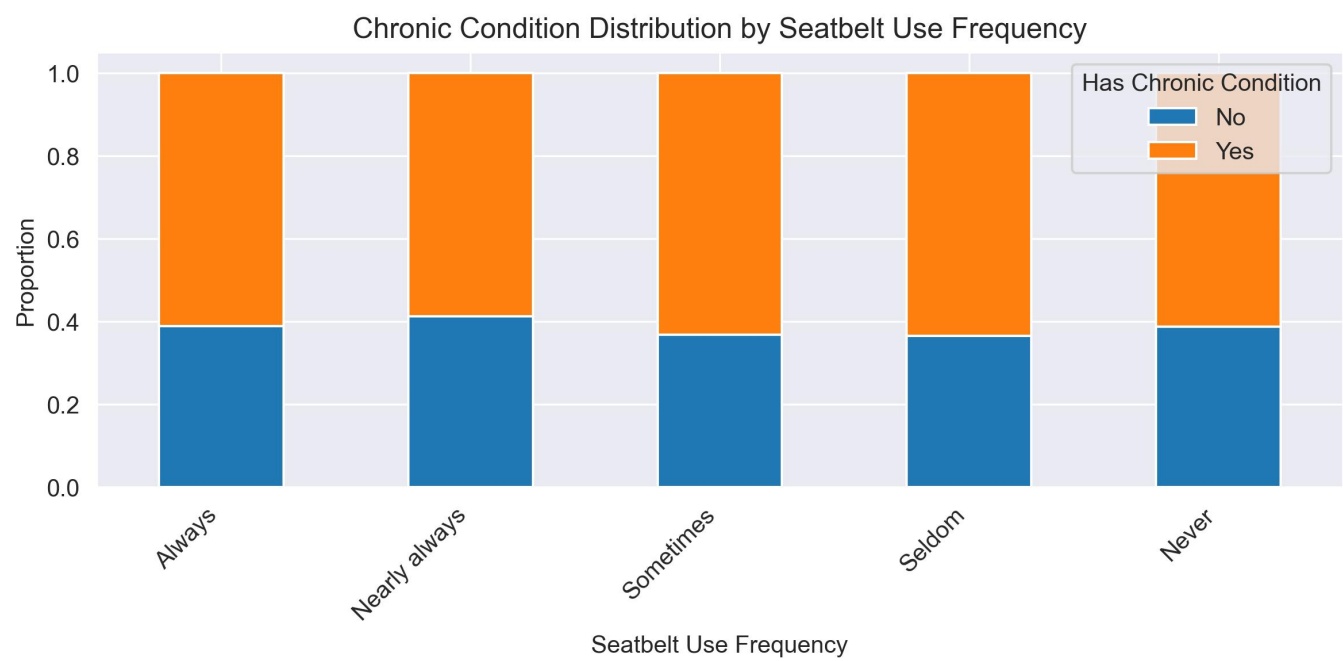


Fig 28: educationvschronic

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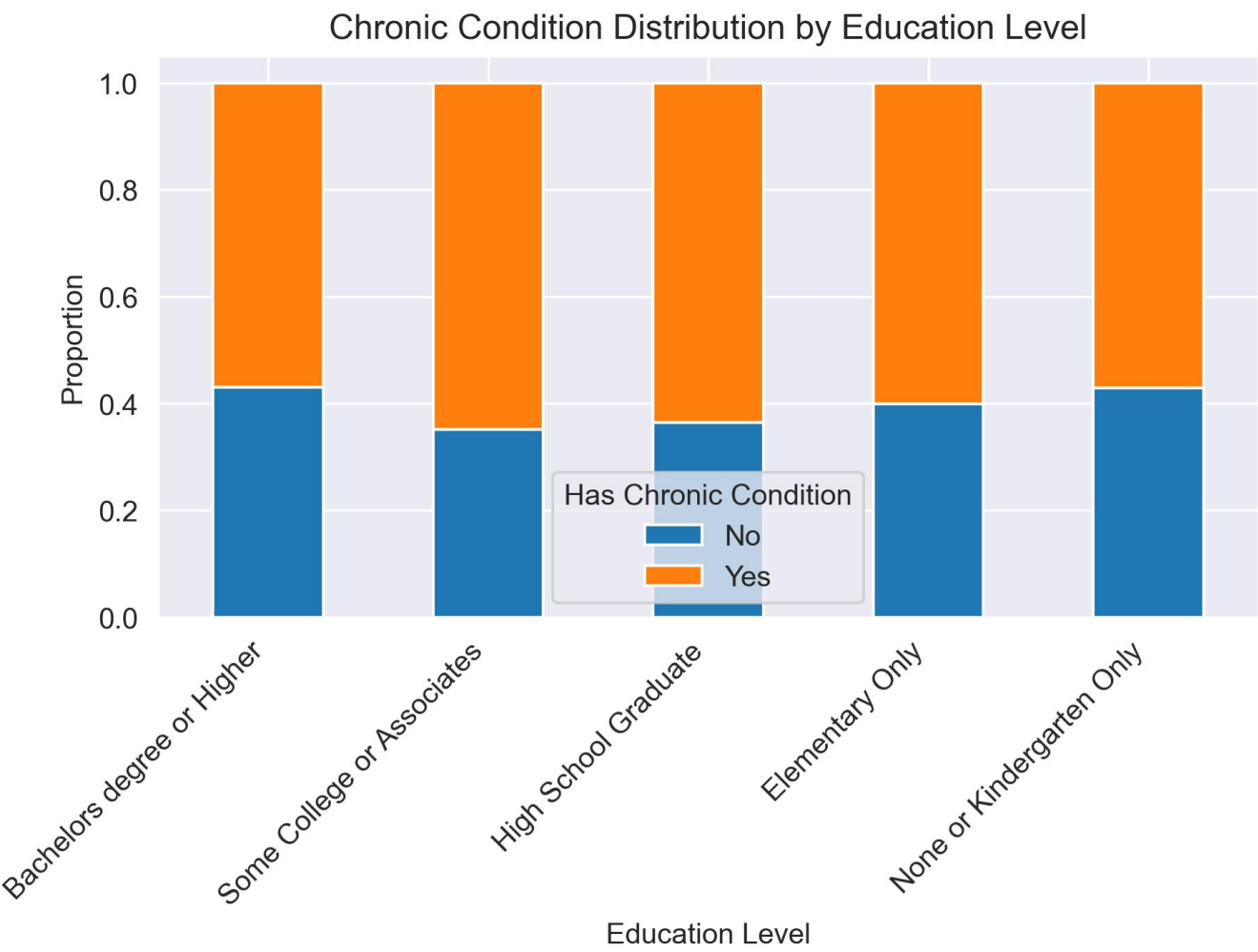


Fig 29: neg\_chronic\_condition\_heatmap

Created: 2025-06-21 00:12:47

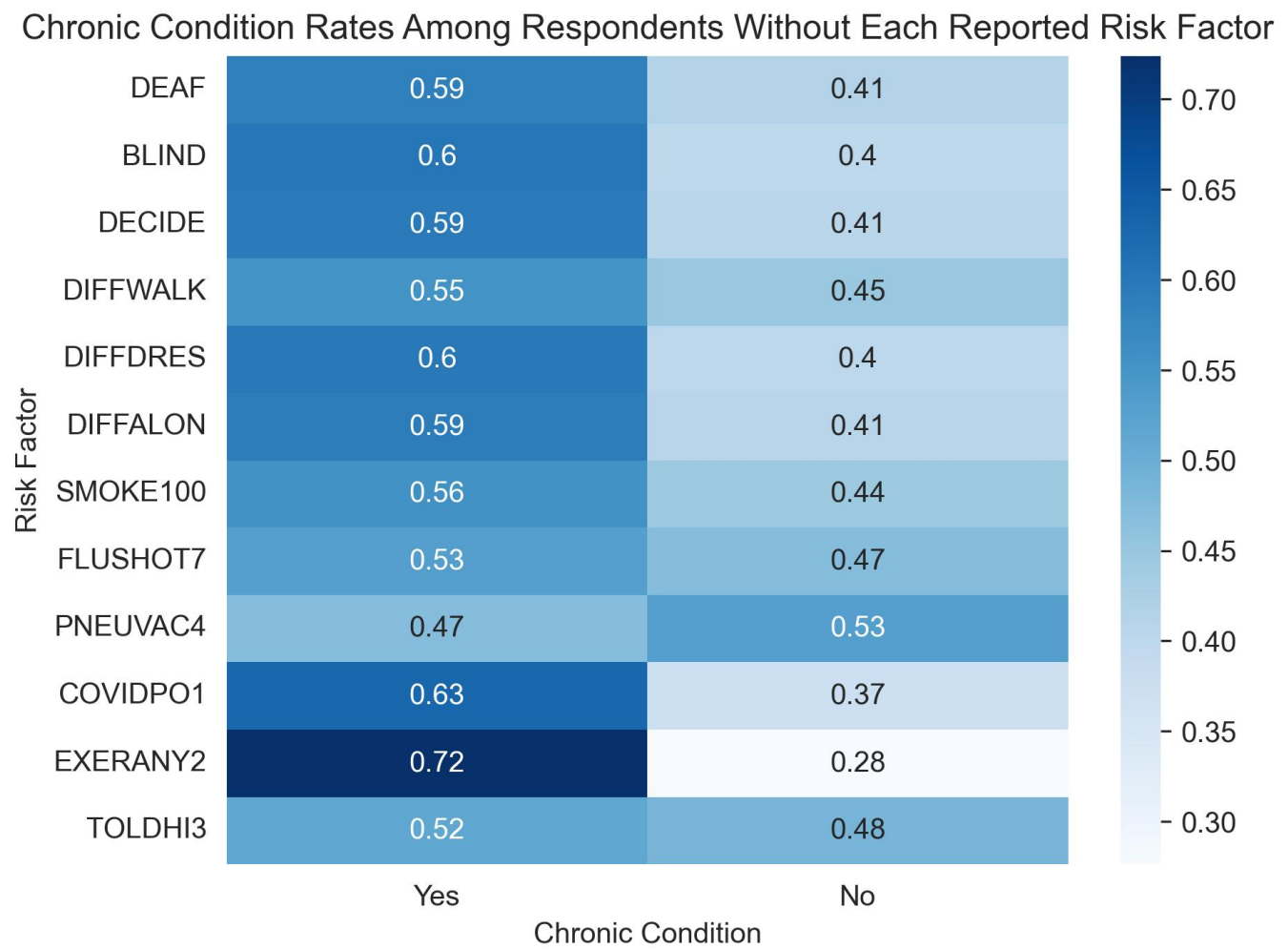


Fig 30: all\_chronic2\_importance

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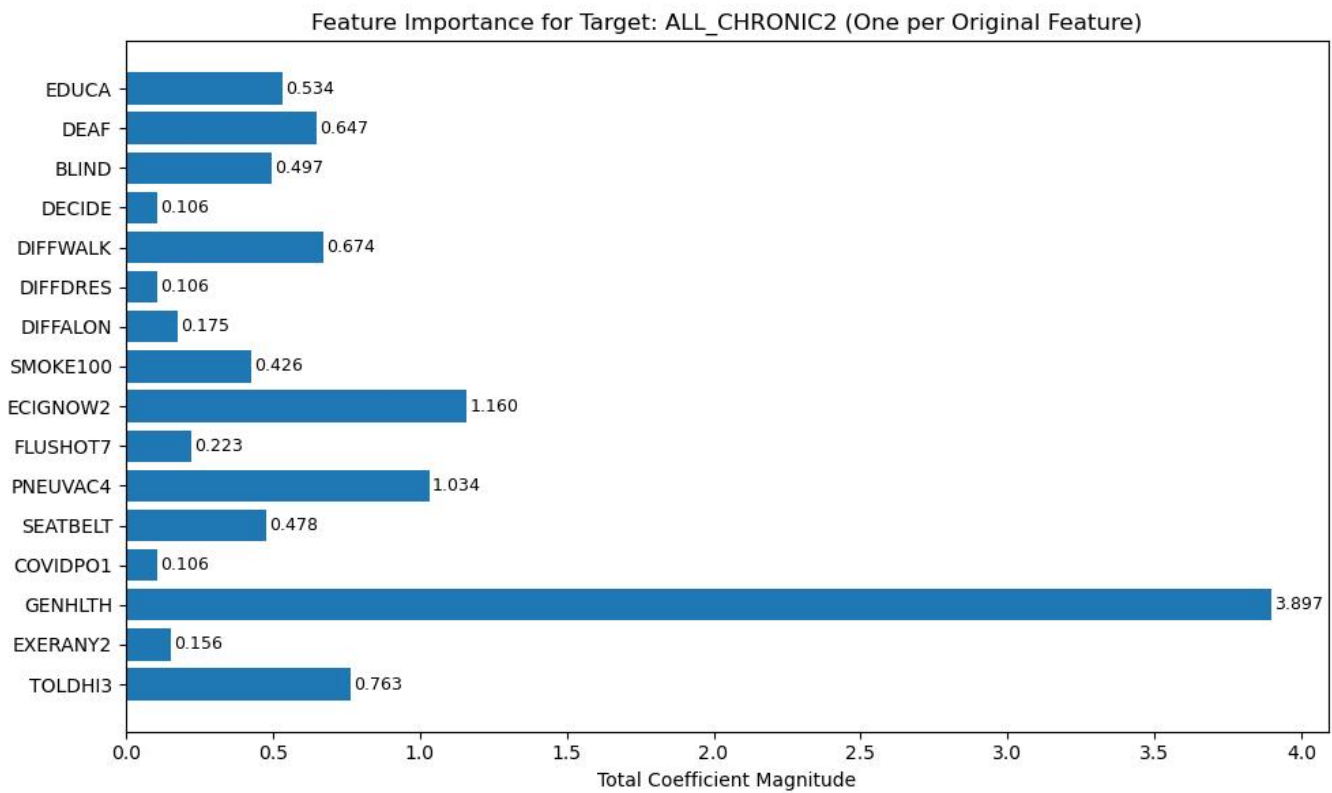


Fig 31: Any\_Chronic\_(alt)\_Condition

Created: 2025-06-21 03:45:03

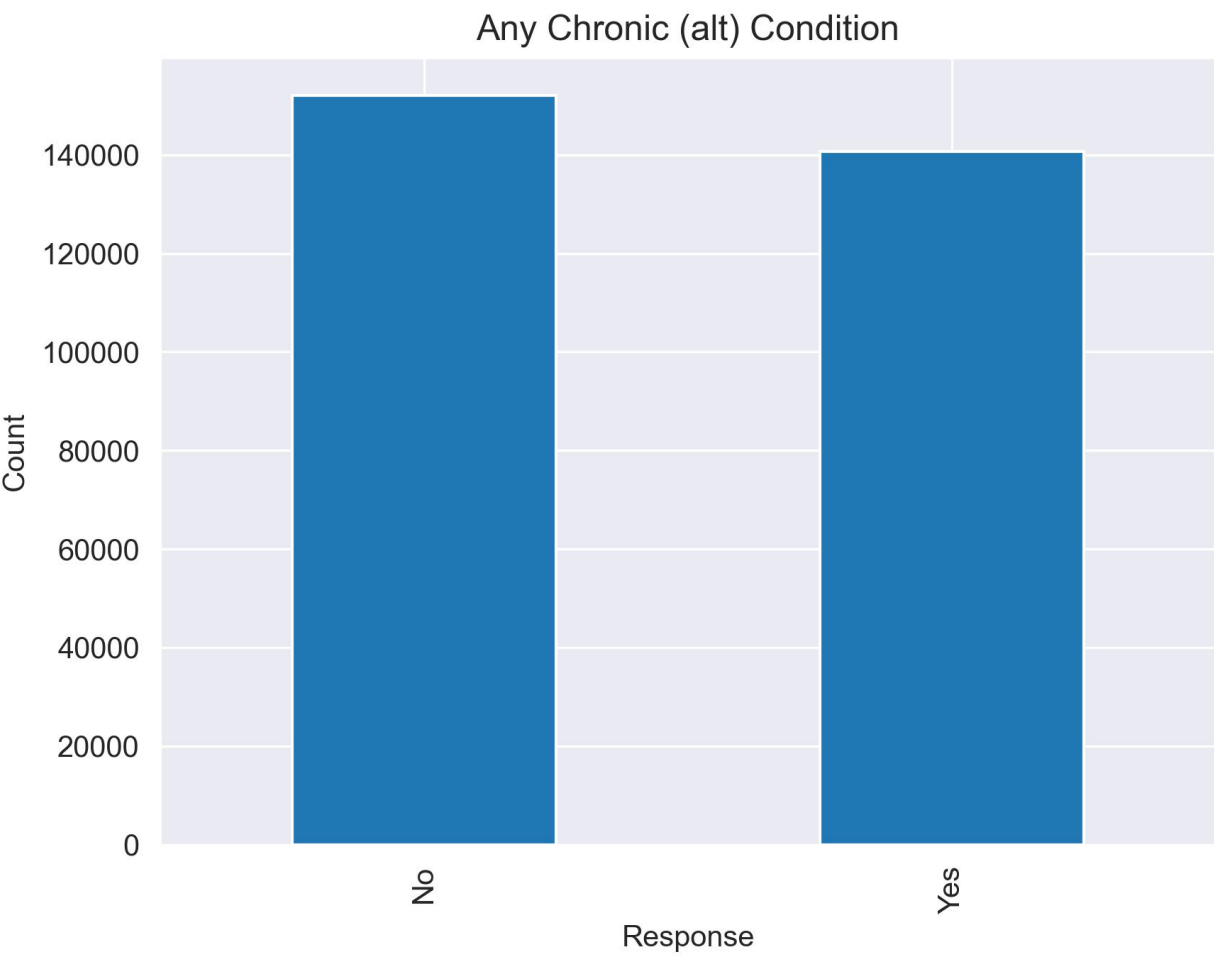


Fig 32: all\_cardiac\_baseline\_table

Created: 2025-06-21 03:45:03

Individual feature baseline results for ALL\_CARDIAC

	accuracy	precision	recall	f1_score
EDUCA	0.563	0.554	0.652	0.599
DEAF	0.561	0.718	0.203	0.316
BLIND	0.534	0.722	0.112	0.194
DECIDE	0.536	0.642	0.167	0.266
DIFFWALK	0.629	0.754	0.384	0.509
DIFFDRES	0.535	0.786	0.097	0.172
DIFFALON	0.555	0.752	0.166	0.272
SMOKE100	0.583	0.591	0.538	0.564
ECIGNOW2	0.502	0.509	0.162	0.246
FLUSHOT7	0.544	0.539	0.604	0.57
PNEUVAC4	0.62	0.61	0.668	0.638
SEATBELT	0.509	0.586	0.065	0.117
COVIDPO1	0.542	0.541	0.563	0.552
GENHLTH	0.646	0.618	0.769	0.685
EXERANY2	0.574	0.626	0.37	0.465
TOLDHI3	0.629	0.626	0.646	0.636



Fig 33: all\_cardiac\_importance

Created: 2025-06-21 03:45:03

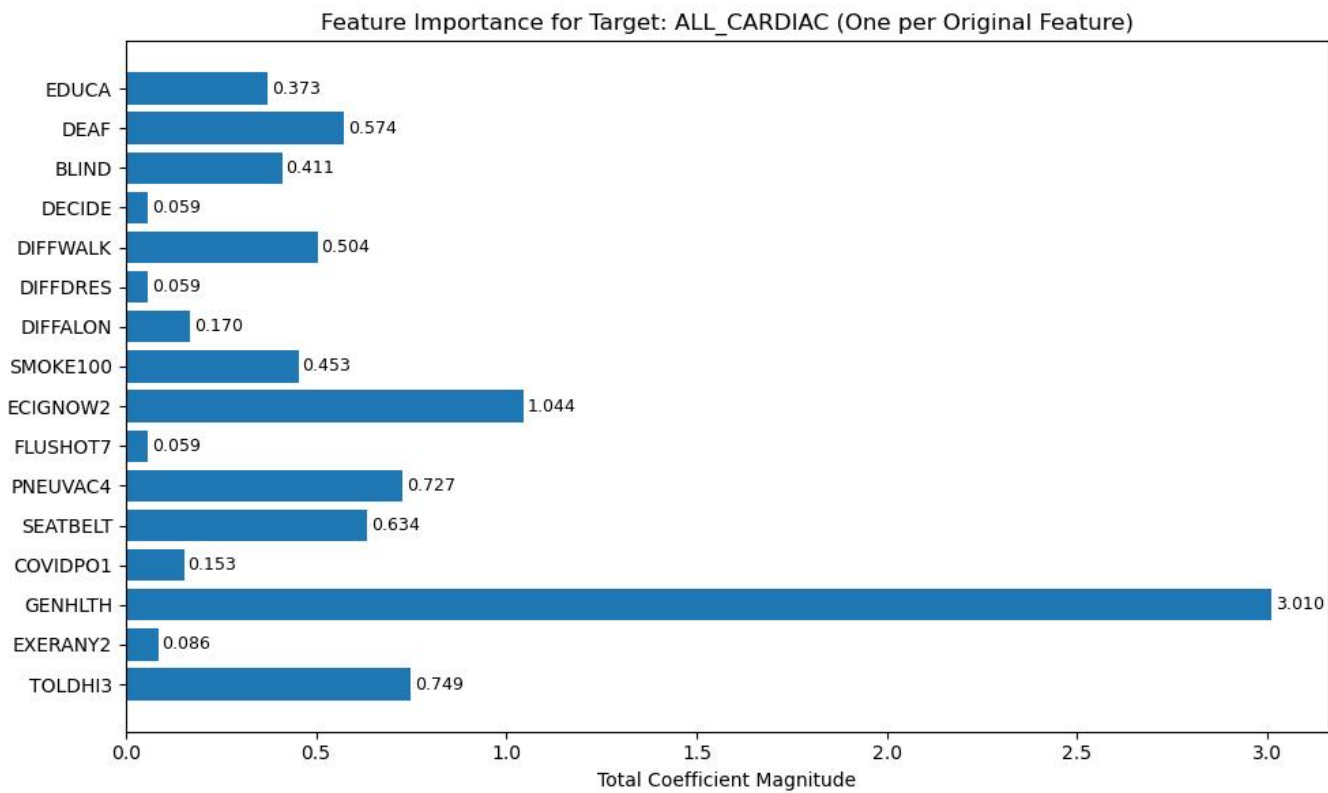


Fig 34: all\_chronic2\_baseline\_table

Created: 2025-06-21 03:45:03

Individual feature baseline results for ALL\_CHRONIC2

	accuracy	precision	recall	f1_score
EDUCA	0.585	0.748	0.623	0.68
DEAF	0.401	0.886	0.177	0.295
BLIND	0.352	0.885	0.097	0.175
DECIDE	0.378	0.829	0.153	0.258
DIFFWALK	0.505	0.916	0.33	0.486
DIFFDRES	0.345	0.93	0.081	0.149
DIFFALON	0.383	0.911	0.142	0.246
SMOKE100	0.549	0.782	0.503	0.613
ECIGNOW2	0.698	0.711	0.967	0.819
FLUSHOT7	0.585	0.761	0.603	0.673
PNEUVAC4	0.657	0.832	0.645	0.727
SEATBELT	0.322	0.765	0.06	0.112
COVIDPO1	0.534	0.732	0.539	0.621
GENHLTH	0.69	0.819	0.721	0.767
EXERANY2	0.48	0.817	0.342	0.482
TOLDHI3	0.624	0.822	0.599	0.693

Fig 35: all\_chronic\_baseline\_table

Created: 2025-06-21 03:45:03

Individual feature baseline results for ALL\_CHRONIC

	accuracy	precision	recall	f1_score
EDUCA	0.595	0.818	0.618	0.704
DEAF	0.343	0.935	0.17	0.287
BLIND	0.288	0.937	0.093	0.17
DECIDE	0.321	0.886	0.148	0.254
DIFFWALK	0.46	0.97	0.317	0.478
DIFFDRES	0.278	0.969	0.077	0.142
DIFFALON	0.32	0.951	0.135	0.236
SMOKE100	0.538	0.848	0.496	0.626
ECIGNOW2	0.68	0.786	0.81	0.798
FLUSHOT7	0.592	0.832	0.598	0.696
PNEUVAC4	0.654	0.895	0.63	0.739
SEATBELT	0.256	0.82	0.059	0.109
COVIDPO1	0.537	0.804	0.537	0.644
GENHLTH	0.687	0.875	0.699	0.777
EXERANY2	0.44	0.872	0.331	0.48
TOLDHI3	0.615	0.882	0.584	0.703

Fig 36: all\_chronic\_importance

Created: 2025-06-21 03:45:03

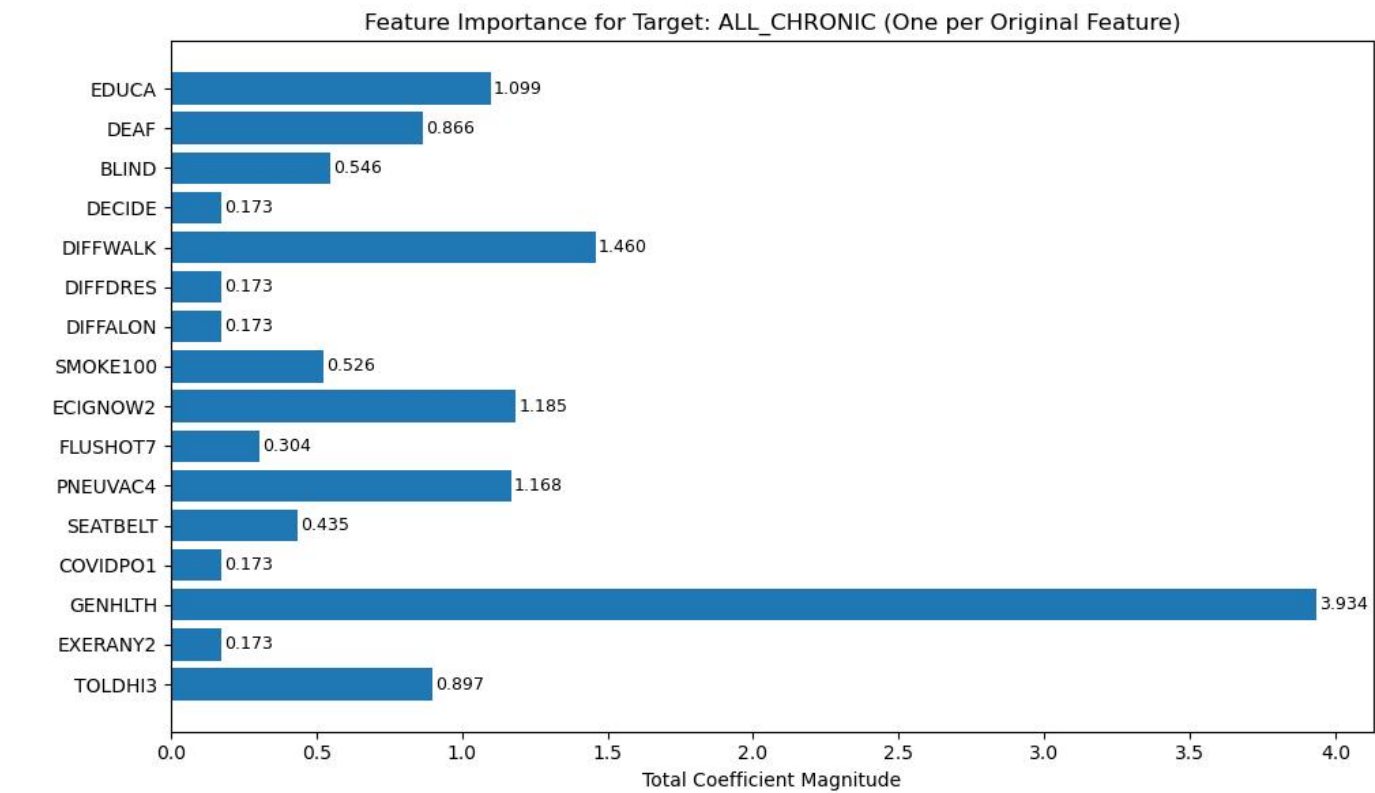


Fig 37: all\_pul\_baseline\_table

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Individual feature baseline results for ALL\_PUL

	accuracy	precision	recall	f1_score
EDUCA	0.493	0.277	0.669	0.392
DEAF	0.7	0.304	0.176	0.223
BLIND	0.736	0.373	0.119	0.18
DECIDE	0.732	0.41	0.219	0.285
DIFFWALK	0.708	0.407	0.425	0.416
DIFFDRES	0.753	0.476	0.12	0.192
DIFFALON	0.743	0.442	0.2	0.276
SMOKE100	0.59	0.318	0.594	0.414
ECIGNOW2	0.681	0.31	0.249	0.276
FLUSHOT7	0.486	0.259	0.596	0.361
PNEUVAC4	0.535	0.299	0.672	0.414
SEATBELT	0.703	0.281	0.139	0.186
COVIDPO1	0.483	0.238	0.509	0.325
GENHLTH	0.702	0.404	0.468	0.434
EXERANY2	0.655	0.33	0.401	0.362
TOLDHI3	0.525	0.276	0.584	0.375

Fig 38: all\_pul\_importance

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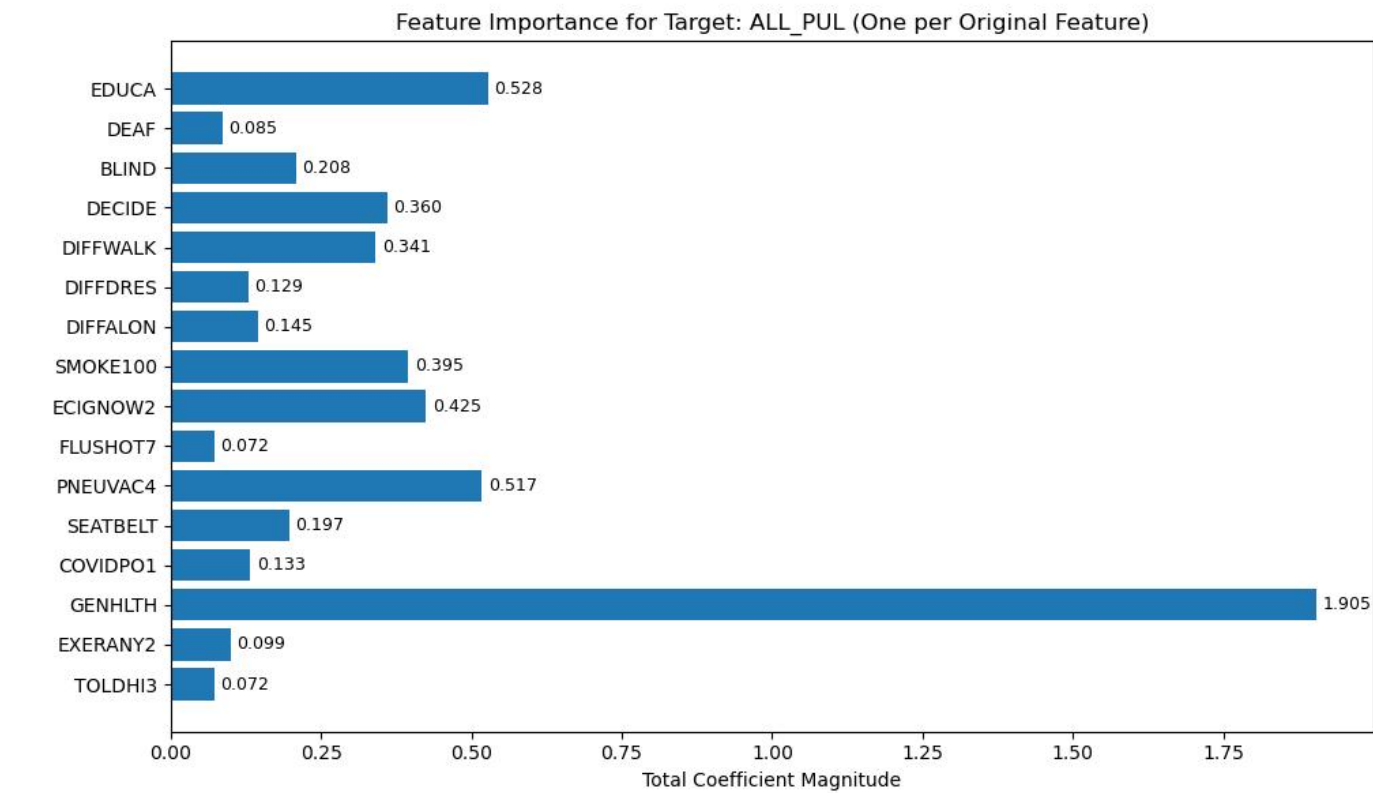


Fig 39: chronic2\_condition\_heatmap

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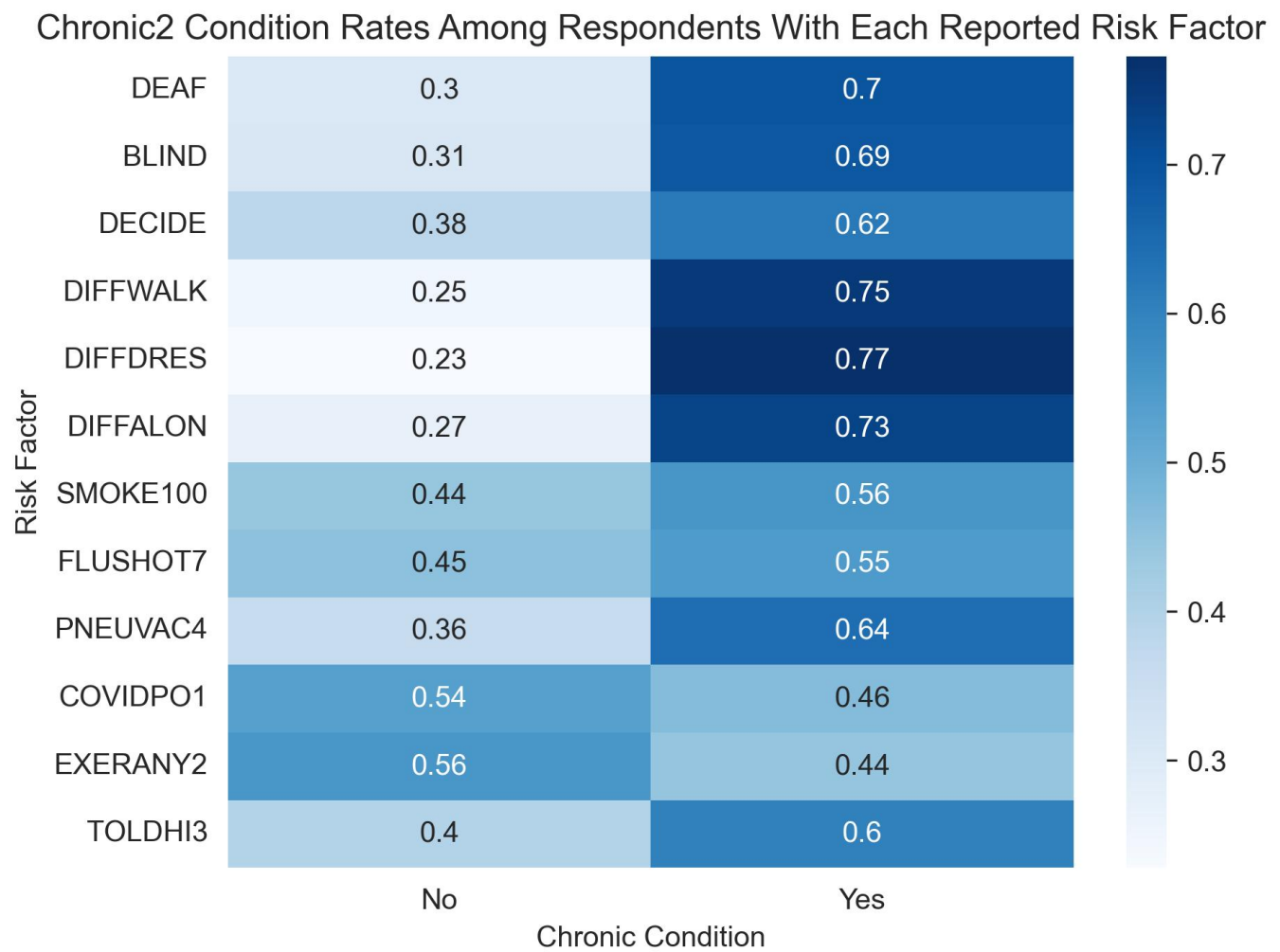


Fig 40: mca\_inertia

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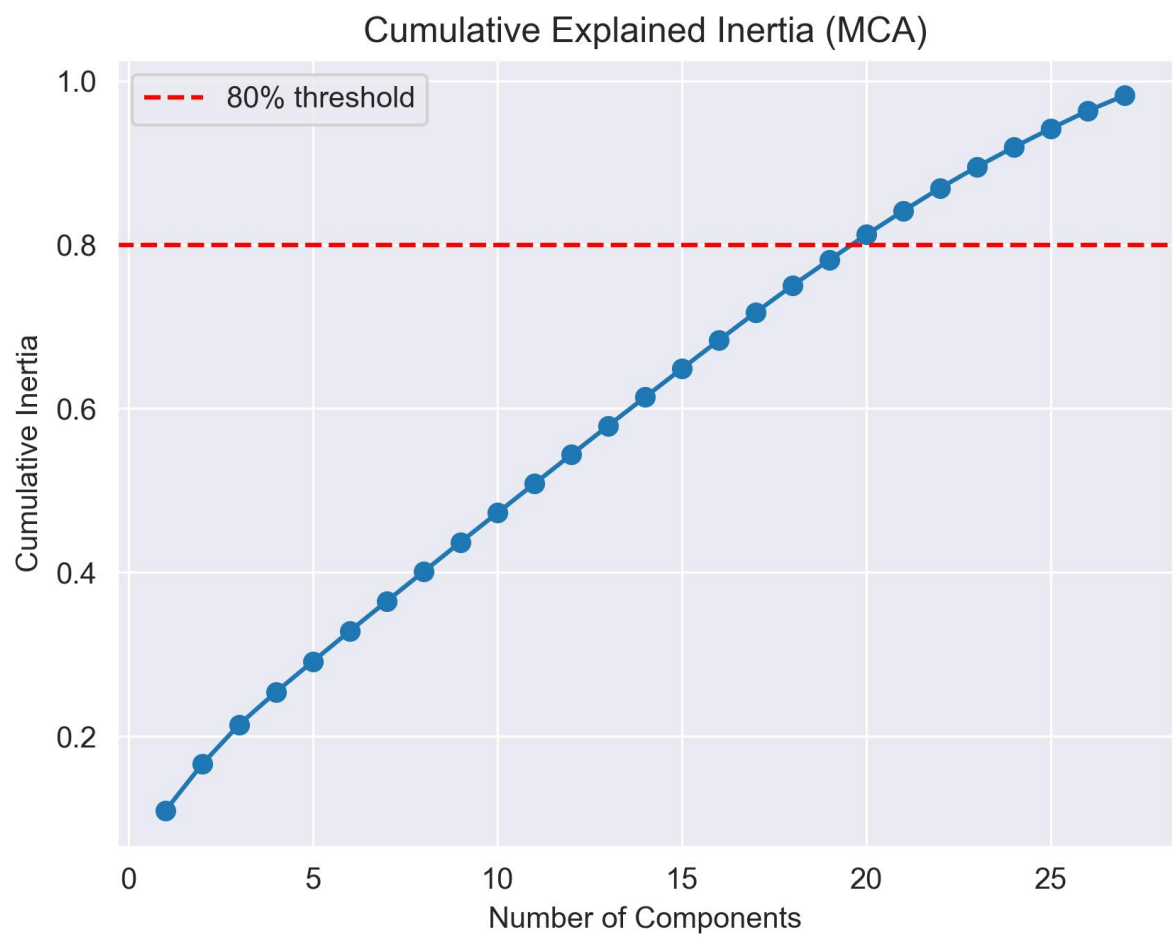




Fig 41: screeplot\_mca

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