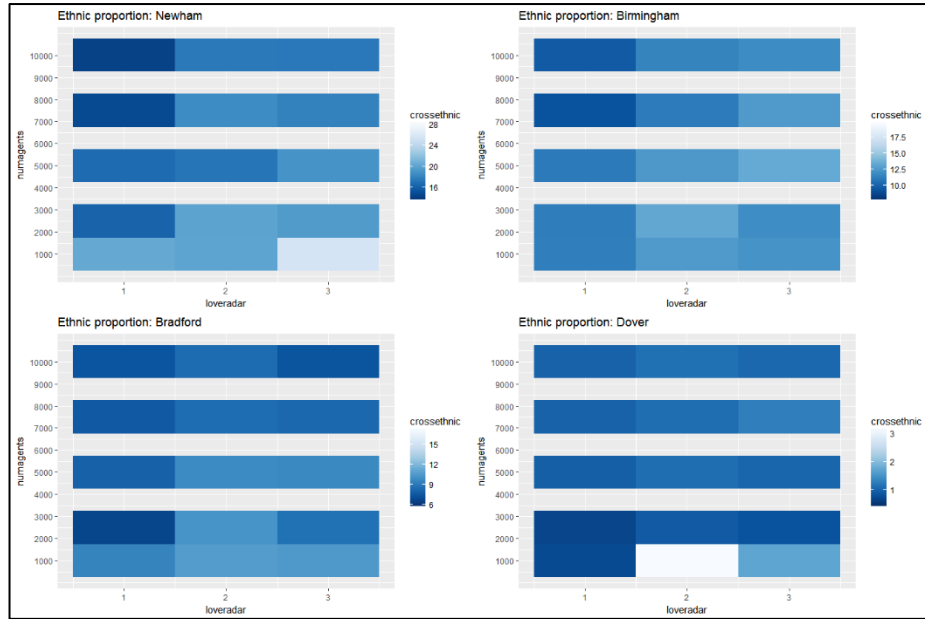
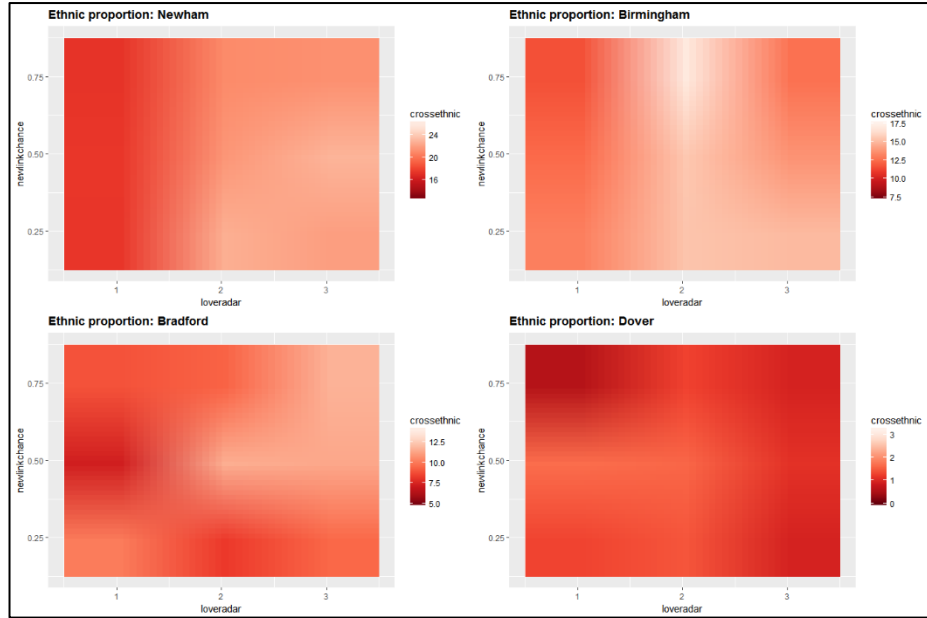


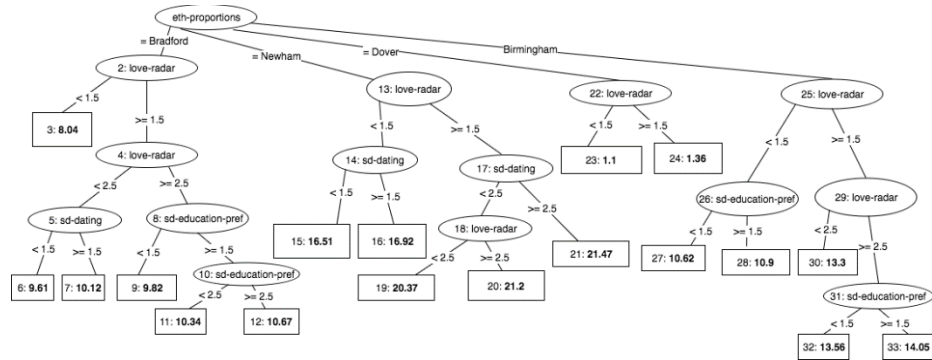
Appendix: Additional plots showing the model's outcomes against different parameter configurations



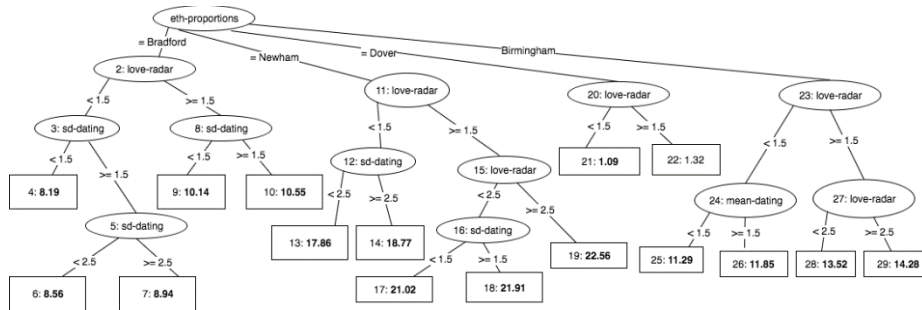
A-1. Heat map showing the change in the average percentage of cross ethnic marriages (*crossethnic*) across two parameters: number of agents (*num-agents*) and *love-radar* in Phase-I of the experiments.



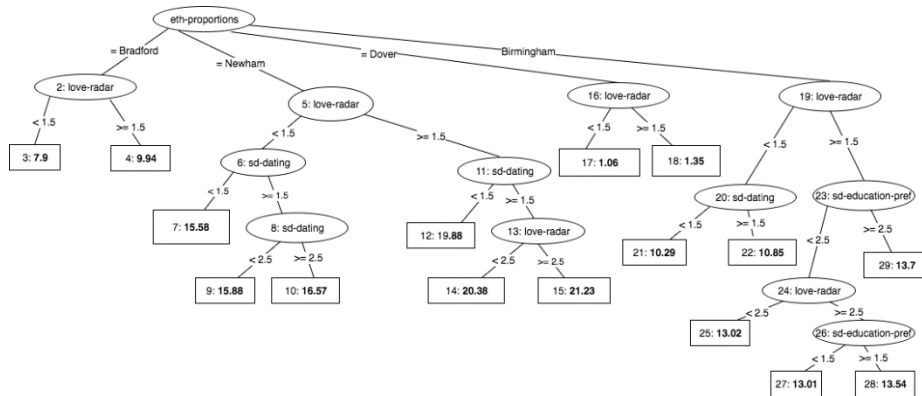
A-2. Heat map showing the change in the average percentage of cross ethnic marriages (*crossethnic*) across two parameters: *love-radar* and *new-link-chance* in Phase-II of the experiments.



A-3. Classification and Regression tree generated from the simulated data across the five parameters in the DITCH model against the average percentage of cross-ethnic marriages shown in the leaf nodes (with *new-link-change* fixed to 0.25).



A-4. Classification and Regression tree generated from the simulated data across the five parameters in the DITCH model against the average percentage of cross-ethnic marriages shown in the leaf nodes (with *new-link-change* fixed to 0.5).



A-5. Classification and Regression tree generated from the simulated data across the five parameters in the DITCH model against the average percentage of cross-ethnic marriages shown in the leaf nodes (with *new-link-change* fixed to 0.75).

	1	2	3	4
Birmingham	2430	0	0	0
Bradford	1	2429	0	0
Dover	0	0	0	2430
Newham	0	0	2430	0

Table A-1. Split of simulated data with respect to UK cities (different ethnic proportions) across the four clusters generated based on the K-means algorithm.