CSC8626 Data Visualization: Summative Assignment Report Sheet

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Please fill this in within the boxes to describe how you completed the task. The filled in table should be no more than three pages long. Add screenshots of your PowerBI report(s) and references after the table.

Part One Task	**Description of how your submission achieved this.**
Fit to task: does the visualization allow the identification of areas most and least in need of aid.	Yes, the visualization developed identifies the most infected area from the low infected area and clearly show us the area in need of the aid. For this I have used map visual with latitude and longitude values which tells us the areas in Manchester. In order to point the places severity of the outbreak, mean value of the all the four simulations is used to segregate the low infected area from the high infected area.
Use of visual channels	I have used visual channels such as slicers, card visual, map visual, scatterplot to visualize the outbreak of the impacts, Uncertainty, population mass in different regions.
Gestalt design principles	Yes, the gestalts 7 principles have been followed.
Use of colour	I have used Color-blindness palette for visualization in order to differentiate between the higher value and lower value in terms of infected, population and the uncertainties.
Use of interaction	I have used sliders to interaction multiple visual such as maps scatterplots to identifies how infected mean varies with the population mass and also with the uncertainities.
Use of language and text	I have used proper formal language to represent the data in the visuals in all aspects.
Technical aspects: performance, reliability, fit on desktop screen.	The visuals used are arranged such that it fit screen and everything is covered.
Part Two Task	
Fit to task: does the visualization allow the identification of areas most and least in need of aid.	Yes, the visualisation developed best fit for identification of severely impacted areas from the low impacted area. I have used the map visual to display infected areas of four datasets. It clearly displays and identifies the more infected regions on the first place as the average infected mean value is adjusted.
Effective visual representation of the data variations over multiple runs.	I have used dataset in the filter to show the variation between different recorded data and used the visuals to clearly show the different regions infected based on the different simulations of different dataset.

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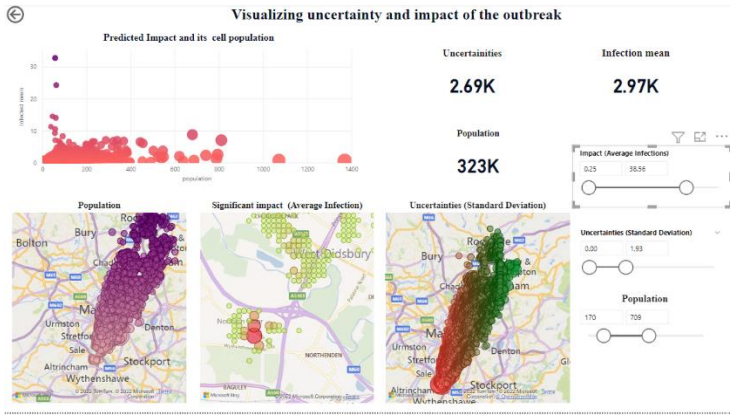
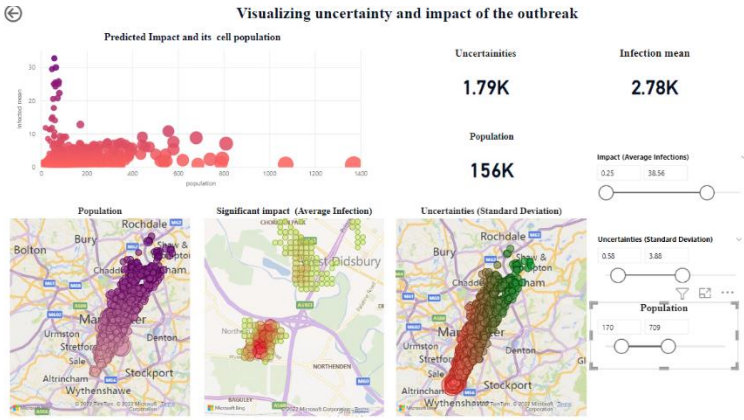
Part 1 Screenshots

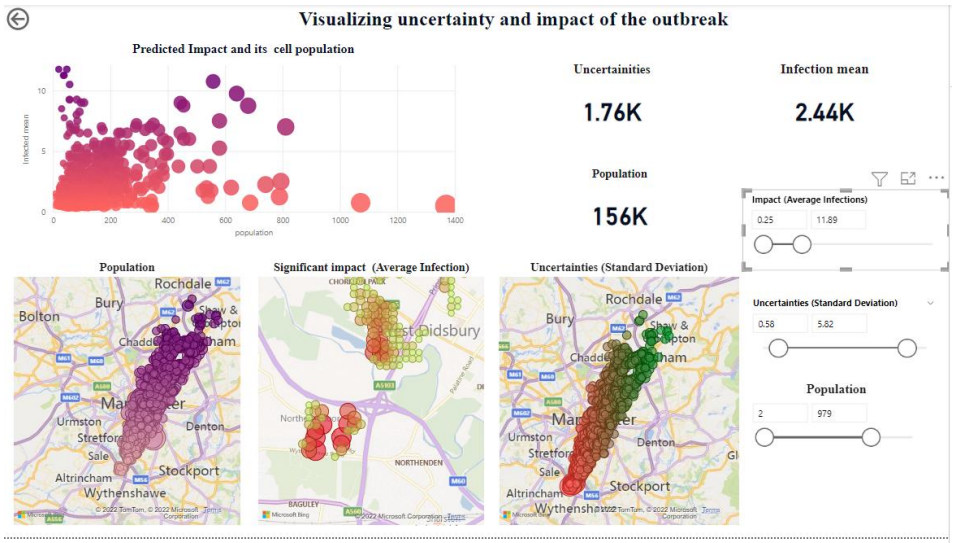
Screenshot1



Screenshot2



Screenshot3



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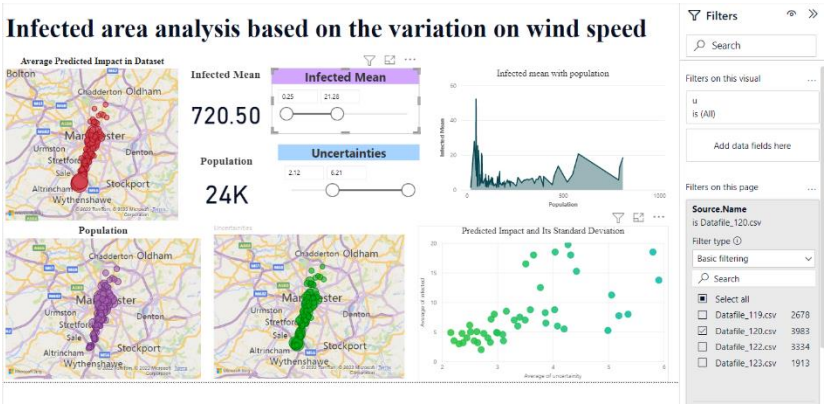
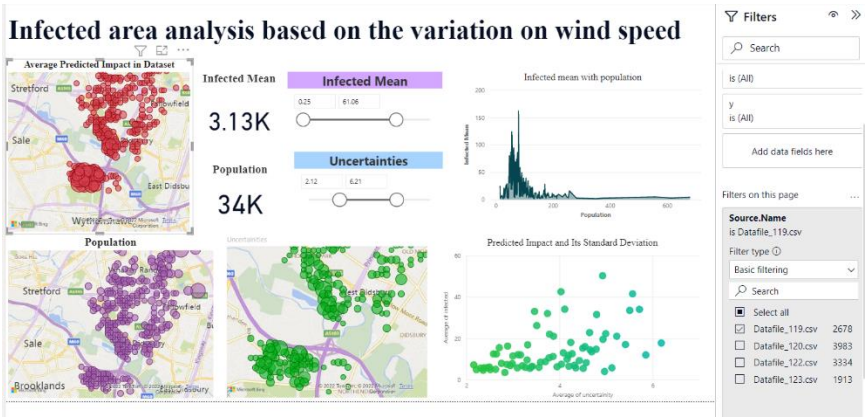
Part 2 Screenshots

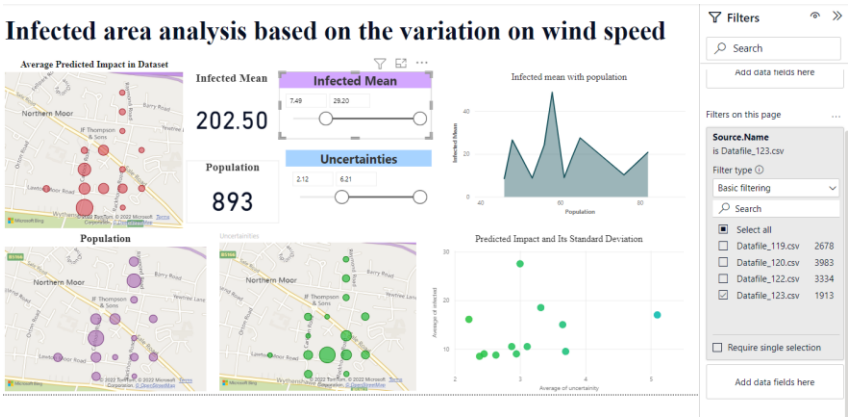
Screenshot1



Screenshot2



Screenshot3



References

https://deepai.org/publication/automating-visualization-quality-assessment-a-case-study-in-higher-education#S6.T1