FIT5147 S1 2024 Data Exploration Feedback

Student Name: Sachin Shivaramaiah (sshi0068)
Marker: Michael Niemann

Criteria	Outstanding (80-100%)	Adequate to Good (50-80%)	Not Adequate (Below 50%)	Feedback
Data Checking and Wrangling (5%)				
Appropriate checking for errors in data, cleaning and reformatting. Demonstrated ability to get data into R or Tableau	X			You have described your data checking and wrangling. You have justified your wrangling. You didn't comment on checking for outliers as part of this process.
Visualisation Design (5%)				
Visualisations that are appropriate for the intended purpose; readable and interpretable; appropriate labeling of axes and visualisations; clear legends; saliency of patterns and trends.		X		The units of measures in some visualisations are not clear, e.g. Figs 4 & 4.1. The values for each plot in Fig 4.3 are too small to read clearly. Fig 4.3 has no colour legend (but really doesn't need the colours anyway). It is not clear what you are trying to check with Fig 4.5. It needs addtional visualisations to help demonstrate whether male or female students are better at completing courses, and if possible what fields they are in.
Analytical Methods and Interpretations (6%)				
Analysis that is appropriate for the intended purpose; justification and explanation of exploration process and use of statistical measures; identification of trends, patterns, and insights.	X			You have identified and described most of your visualisations. You did not justify your choice of designs. You interpreted your visualisations fairly reasonably. You speculated about the context behind various interpretations, but did not support those speculations with cited references. You did though do additional statistical analysis to conform the significance of certain interpretations. This additional analysis was not visualised or tabularised.
Degree of Difficulty:				
Data Complexity [4%]: e.g. significant wrangling or cleaning required; good use of non-tabular data (e.g. spatial, relational, textual); large datasets (observations or dimensions) and/or multiple data sets; data scraping.			X	You had to do some minor transformation of the data. You did not describe complex or large data that required special handling. You only used tabular data.
Advanced Analysis [2%]: e. g. clustering; dimensionality reduction; sophisticated aggregation and/or filtering; non-linear model fitting; correct use of statistical tests; complex timeseries analysis.	X			You used chi-squared tests and Pearson's correlation analysis.
Visualisation Complexity [3%]: e.g. implementation difficulty; variety of good visualisations; attention to visual detail; complex visualisations.			X	You used a small variety of visualisation types, primarly line graphs. None of them were complex or extraordinary.
Completeness/thoroughnes s [3%]: e.g. clearly articulated findings; awareness of limitations; deep exploration; thorough conclusions.	X			Your exploration relates well to the questions in your proposal. Your conclusion is clear about your findings. Your reflection relates to the data exploration but does not outline any lessons learnt from designing and using the visualisation of the data.
Written Report (5%)				
Quality of writing, referencing, images, logical structure (follows suggested format), correct referencing of figures and tables; correct academic referencing of sources.		X		You have issues with some capitalisation, spelling and missing spaces in your writing. You need to tidy up your writing a lot. You numbered your figures and referred to them well in your writing. Your references were all cited in your writing, but the reference list items did not follow the APA or IEEE style guide format.

The report contain the following sections: Introduction/ Data Wrangling/ Data Checking/ Data Exploration/ Conclusion/ Reflection/ Bibliography	**X**			You have included all required sections.