Final Assignment about Data Science and Reports

Q1. Data science and Data scientists

Data science is something that data scientist do.

Data science is a way of extracting insights from large volumes of disparate data.

Data science involes drawing patterns from seemingly random structured and unstructured type of data.

Data scientists are curious and analytical thinkers who use a variety of math skills not limited to Mathematics, Statistics and Probability to solve a problem.

They apply different available methods and algorithms to draw insights and conclusions from various kinds of data.

After applying data science methodologies, they are effective communicators and story tellers who can present their findings often to present new findings or confirm what was initially suspected.

Q2. Domain

I am passionate about pursuing a data science career in drawing new insights and findings in the field of Healthcare. I would like to create models to predict diseases very early on by looking at various parameters of a person not limited to genetics, family history, lifestyle, and diet.

Q3. Ten main components of a report would be

1. Cover Page with Author's name, contacts, affiliations if any and publication date
2. Table of Contents containing main headings, list of contents and figures
3. Abstract / Executive summary to explain gist of the report
4. Introduction to explain the topic to new readers
5. Literature Review including citations of authors and data sources
6. Methodology section to explain the research methods and data sources used for analysis
7. Detailed Explanations including Results and discussion sections
8. Conclusions which generalize findings and identify possible future outcomes.
9. References
10. Acknowledgement and Appendices (if Needed)