

Amanda Roberts

Data Bootcamp Final Project Presentation

Covid-19 Impact on Students Education, Social Life
and Mental Health



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About Me

I graduated from University with a BSC (Hons) in Computing where I programmed in Cobol, SQL and C++. I wanted to work in education and use my Computing Degree as a pathway, after having my first child and being more aware of the challenges children faced in the education system and how this impacted them.

I worked in a special needs school as an ICT Teaching Assistant and later worked in primary schools as a Teaching/Learning Support Assistant, providing support for children with various special needs and learning disabilities.

I provided support for young children using a holistic approach and to be a voice for children and their families.

Experience or Qualifications

- ❖ Data Analytics Bootcamp
- ❖ Digital Marketing Bootcamp
- ❖ NCFE Certificate in Teaching and Learning in Schools
- ❖ HND In Computing

Why did you choose to learn Data Analytics, and what role would you like to work in following what you've learned?

I decided to retrain to combine my love of tech and my passion for working with special needs children. I am seeking an opportunity to continue empowering children and their families but from a data analysis perspective so that I can use my analytical skills to help drive government and organisational decisions and push real change to continue to empower marginalised people so that they can fully contribute to society and build a brighter future.

About your project

The Objective of my project is to investigate the Impact that Covid-19 had on Education, Social Life and Mental Health of Students. To analyse the data, give logical reasoning for my findings so that better data driven decisions can be made.



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How did you apply what you have learnt in the Bootcamp?

Should show how you used project management principles Excel, data SQL , Tableau , Python where necessary

Best Practice

I made a copy of the original dataset and worked on the copy. This prevents making any mistakes on the original one. Clean the data, looking for duplicates and errors. I had to think about what questions I needed to ask about the data.

Include comments on my SQL code for readability to explain sections of SQL Statements and to be able to clearly understand code that has been written. This is important for anyone who looks at my code who may not have any knowledge of SQL.

I also understand the importance of including comments before coding.

I'm able to interpret the results and explain in non-technical terms using the correct Data Visualisation.

To use the correct colours for your visualisation and titles.

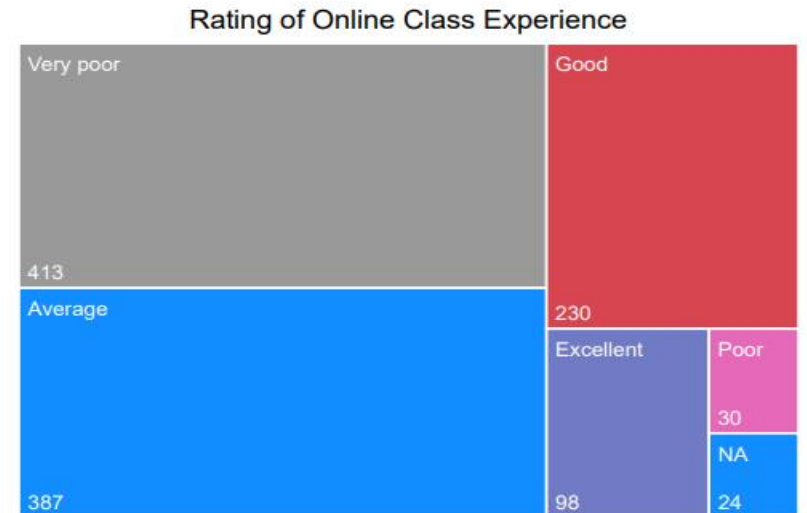
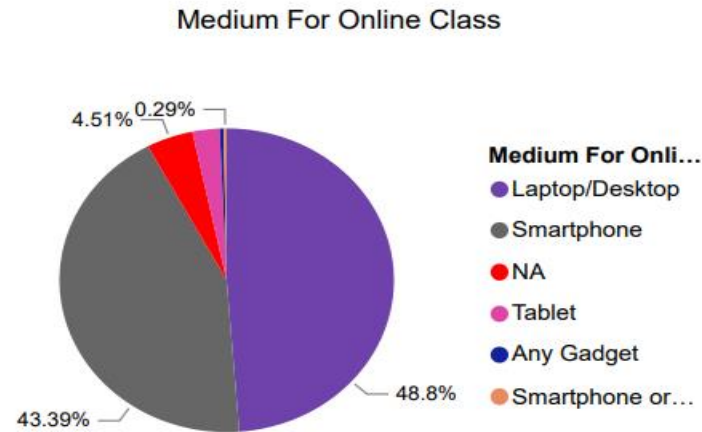
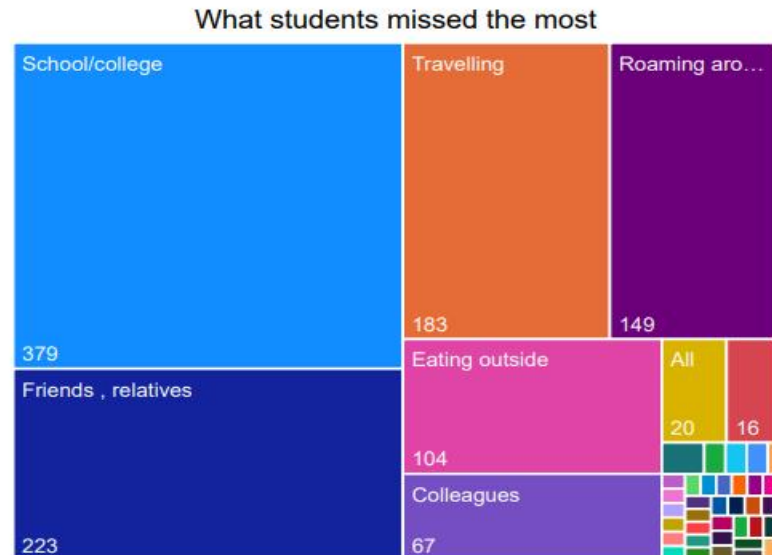
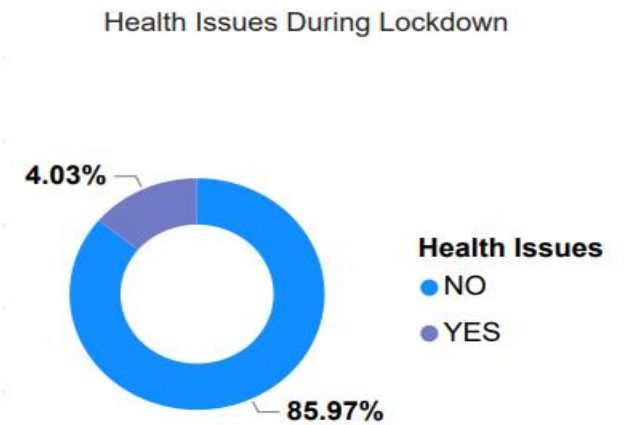
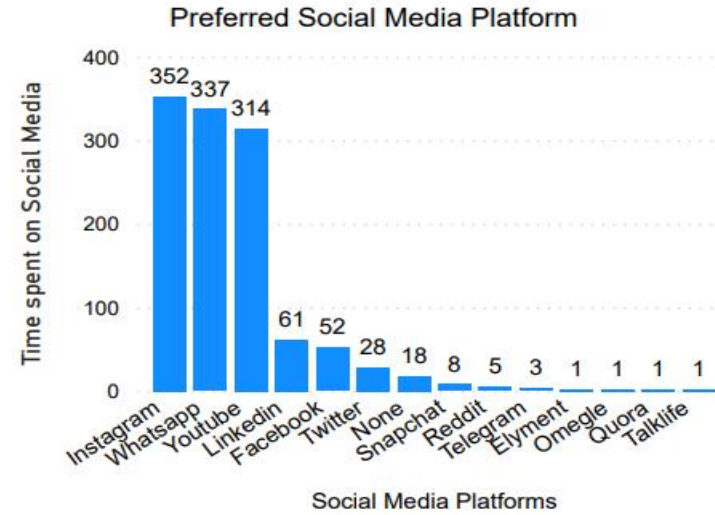
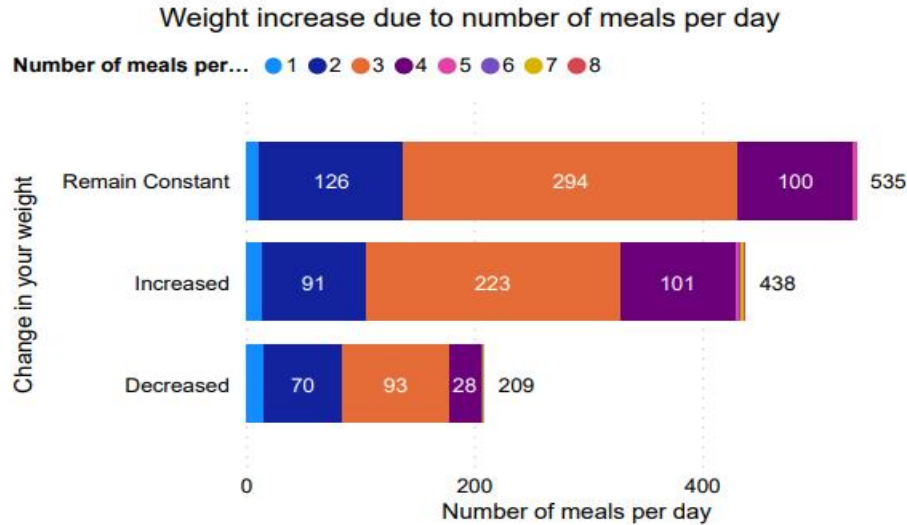


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Data Visualisation

COVID-19 IMPACT ON STUDENTS EDUCATION, SOCIAL LIFE AND MENTAL HEALTH



Summary of findings

Students were greatly impacted by COVID-19 on Education, Social Life and Mental Health. Data has shown the impact which it has had on the students. The restrictions enforced and not knowing when Schools, Colleges and Universities would re-open would be stressful and have negative impact on them. Some students reported not utilising the time which could also play a factor, some Connecting with family and friends. time spent on fitness but students did say what the missed most.

Restrictions meant that there was a lack of communication and interaction with family friends and being able to go outside. This had a profound effect on their education, social life and mental health. 7-17 year olds spent more time on fitness and less on social media compared to the other groups.

From these findings informed business decisions can be made to support students continually, should they need it. To improve the online learning experience so that students are able to have access to learning virtually as well as in School, College and Universities. To be more prepared should lockdown happen again. Ensuring students have the correct devices, and support can be given.



Challenges

- ❖ Uploading the Covid_19_alt data set
- ❖ Issues with my broadband connection which are on-going
- ❖ Laptop fan wasn't working so I had to find a replacement laptop
- ❖ Logging on MY SQL Workbench displayed bugs
- ❖ Working with survey data can be tricky as some participants loose interest, or their understanding of the questions asked
- ❖ Some people answer questions on how they think they should answer it this is called social desirability
- ❖ Another difficulty I faced is the column name which had a question mark. This was not recognised in SQL code, I had to alter the table and rename the column name
- ❖ In the Dataset there are 1182 students but the total students displayed in my project are 1179.
- ❖ Uploading files to GitHub

What I have learned is when faced with challenges is to persevere so that you are able to overcome.

Top 3 Things you have learnt on the bootcamp

Educationally

I now have a greater understanding of what a Data Analyst does.

I have learnt how to perform functions using Excel such as MIN, MAX, SUM, VLOOKUP, XLOOKUP, PIVOT TABLES, SORTING. Program using MYSQL and some understanding of Python. To use Tableau and Power BI for Data Visualisation.

Personally

I value the importance of education and embrace opportunities. Prior to enrolling on the Data Analytics Bootcamp I began a Digital Marketing Bootcamp which helped me to meet deadlines, become more resilient than I was before and helped me with perseverance, this enabled me to enrol on the Data Analytics Bootcamp as I was able to see the endless possibilities for a new career. The Data Analytics bootcamp has given me the confidence to challenge myself more, take risks and even when adversity comes to never give up and continue to have a Growth Mindset.

Career Wise

I would like to secure a position as a Data Analyst in Education because this is where my passion is, to help the next generation.

I am continuing to find ways to explore more about SQL and Google Analytics Certification.

