Amanda Roberts

Data Bootcamp Final Project Presentation

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

Department for Education

BLACK DISRUPTOR ACCELERATOR

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 face 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 being 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 retrained 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 a 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 the 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.

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
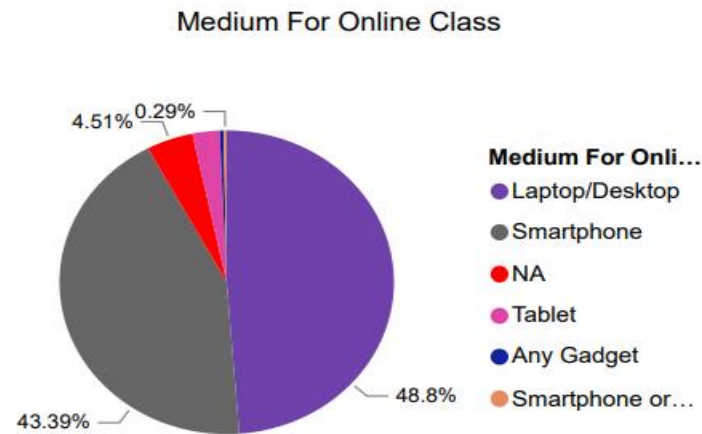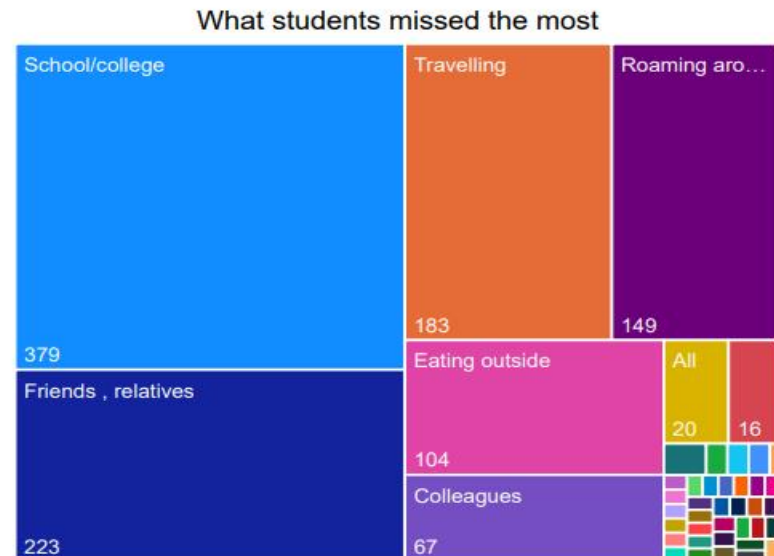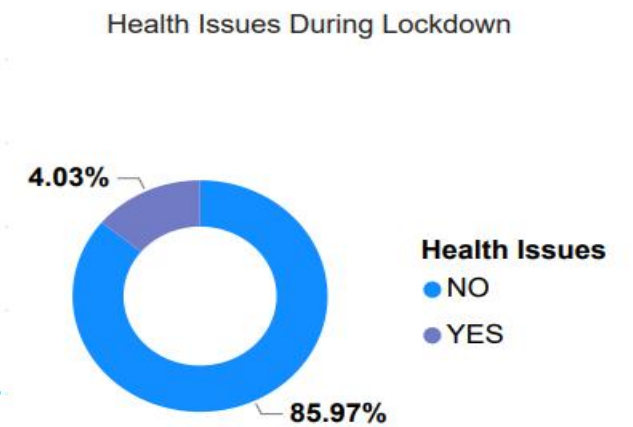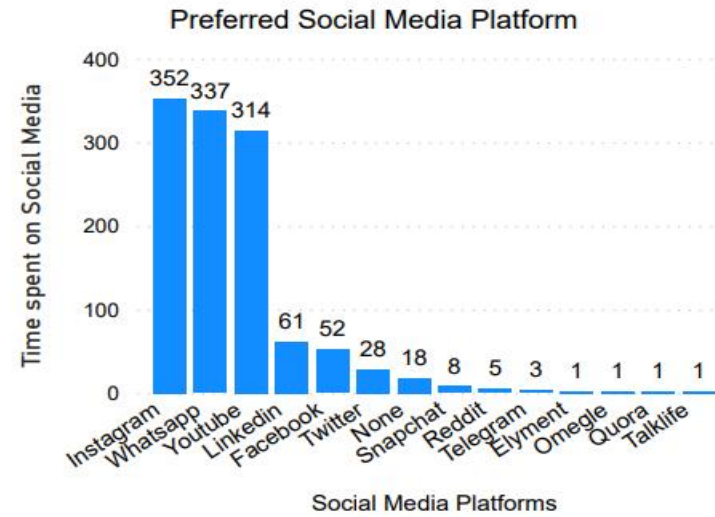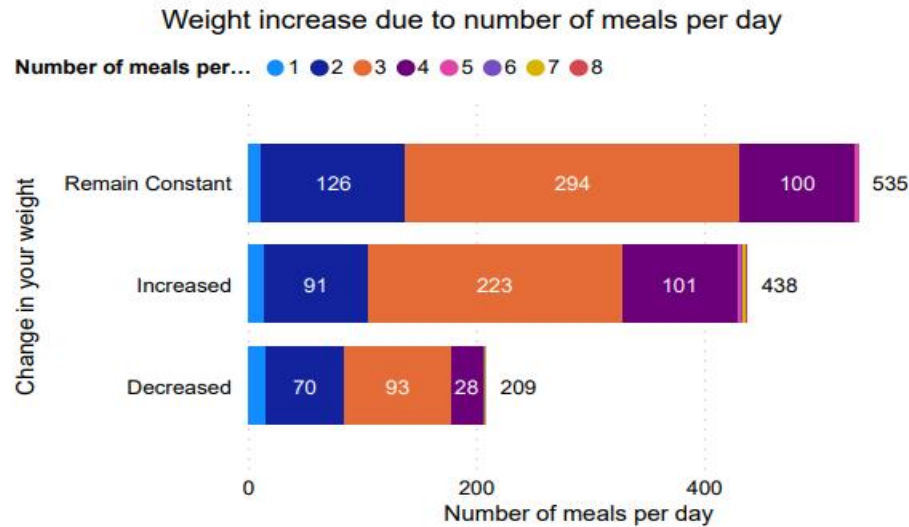
Best Practice

I made a copy of the original dataset and worked on the copy. This prevents making any mistakes in 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 in SQL code for readability to explain sections of SQL Statements and clearly understand the code written.

This is important for anyone who looks at my code and 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 them in non-technical terms using the correct Data Visualisation. Use the correct colours for my visualisation and titles.

Data Visualisation

Summary of findings

COVID-19 impacted students in Education, Social Life, and Mental Health. Data has shown the impact it had on students. The restrictions enforced and students not knowing when Schools, Colleges, and Universities would re-open would be stressful for them. Restrictions impacted the daily life of students. The data clearly shows this in the responses given by students. 7-17-year-olds spent more time on fitness and less on social media compared to the other groups. Some students reported not utilising the time and not all students from all age groups connected with family and friends. Their online class, self-study, and rating online class experience can impact students without reliable internet or up-to-date technology. Spending too much time on a device may impact your Education, Social and Mental Health.

This could be a factor why 18-22 aged were on online classes for 2 hours. Online classes would also influence family life, as the younger students may need support and help in accessing learning. The responsibility may be on the parent/family member to support their child with their learning and they may not have the time or understanding to do so. 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 can have access to learning virtually as well as in Schools, Colleges, and Universities. To think of other ways for students to engage and interact with fitness. Finally, to be more prepared should lockdown happen again, ensure students have the correct devices and support given.

Challenges

❖ Issues with my broadband connection which are on-going

❖ Uploading the Covid_19_alt data set

❖ 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

<u>Educationally</u>

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

I have learned 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.

<u>Personally</u>

I value the importance of education and embrace opportunities. Before enrolling in 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 could 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, never give up and continue to have a Growth Mindset. It has also taught me I can apply for roles within this field and that I shouldn't limit myself, as I have the potential.

<u>Career Wise</u>

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 explore more about SQL and Google Analytics Certification.