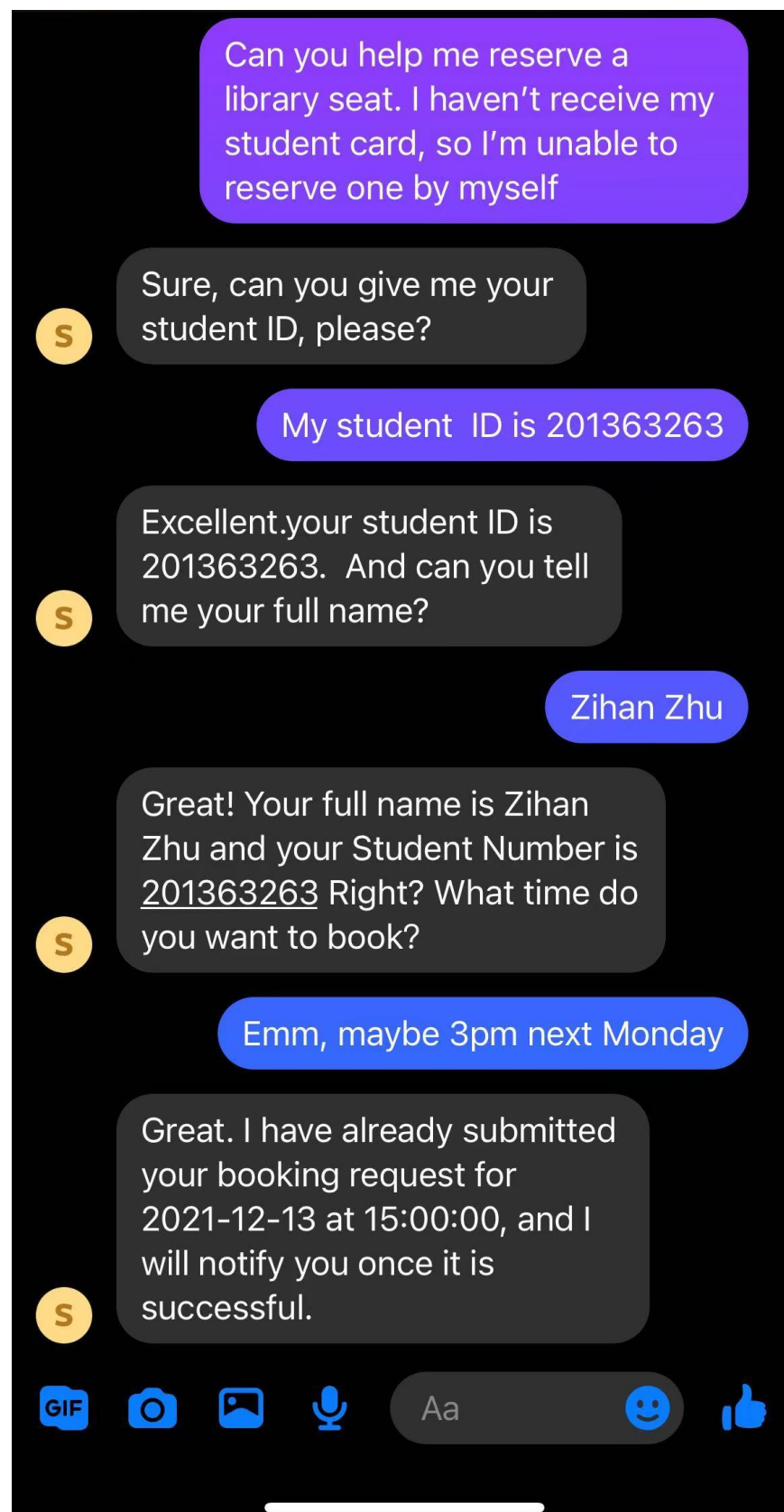


Library Reservation:



University Information Consultation:

Hello

S

Hello there. My name is Marcus. I can tell you the campus Information, or I can give you details about SCHOOL OF COMPUTING. How may I help you today?

Emm. Actually I'm a new. I want to apply the master degree of university of Leeds. Can you tell me some information of when to start applying?

S

The application time for a master's degree at the University of Leeds is in September each year. The school starts in September each year and the application will be closed in May. You must prepare to apply one year in advance. For more information, please visit the official website of the University of Leeds: <https://www.leeds.ac.uk/>

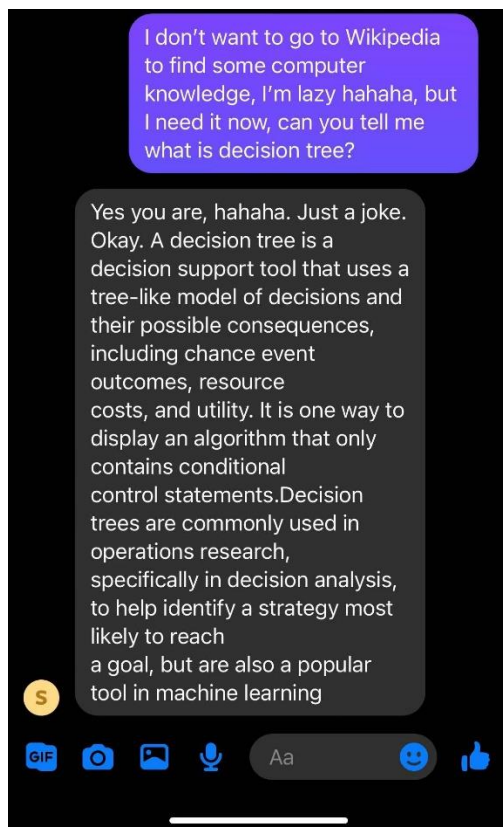


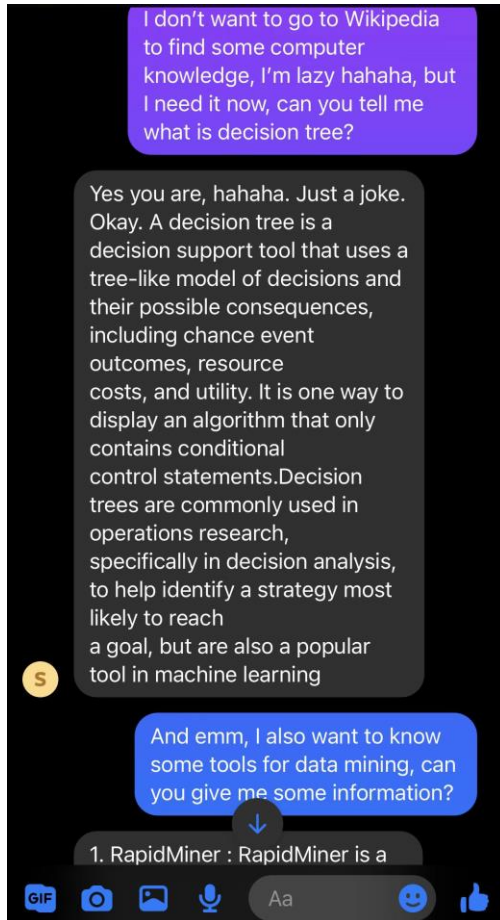
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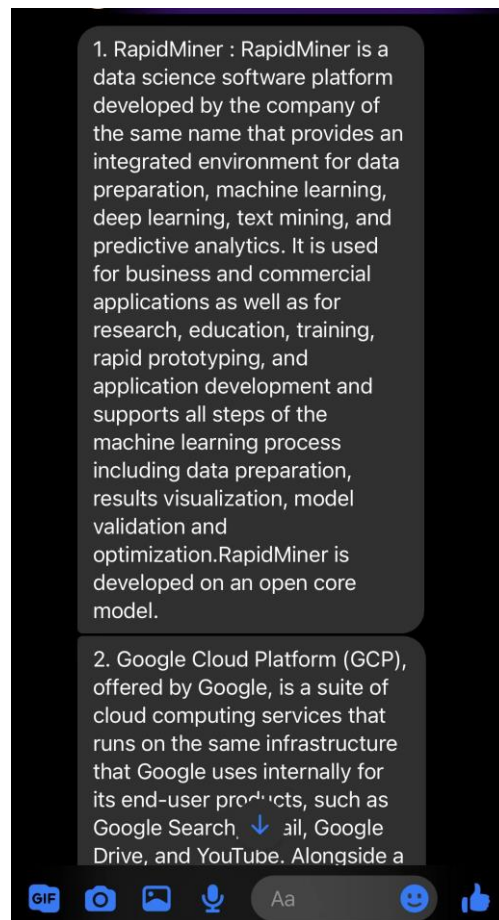
Question And Answer module:

Q1

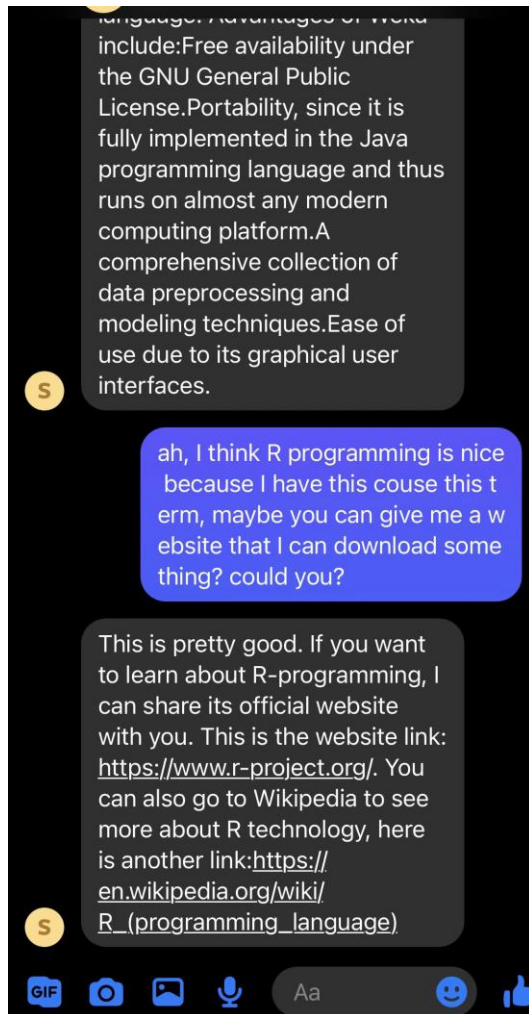




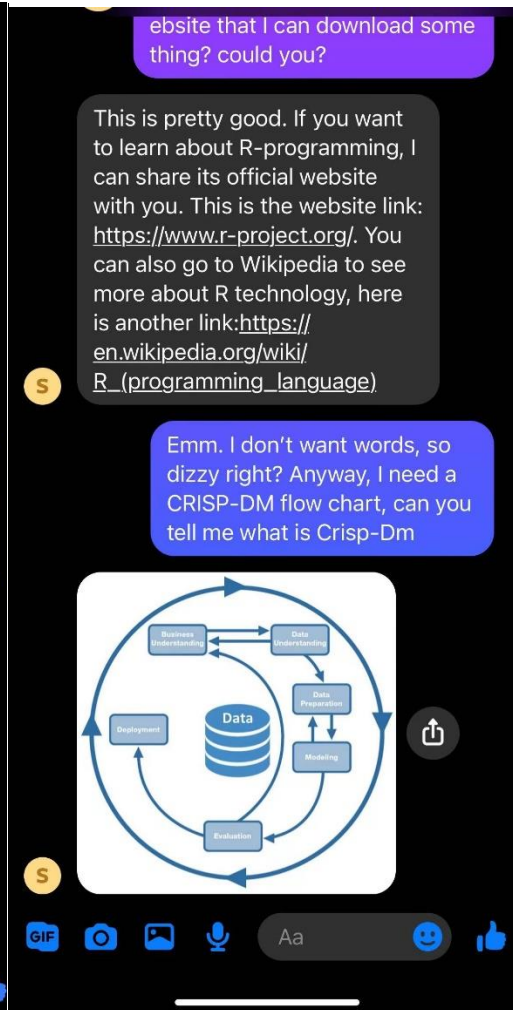
Q2



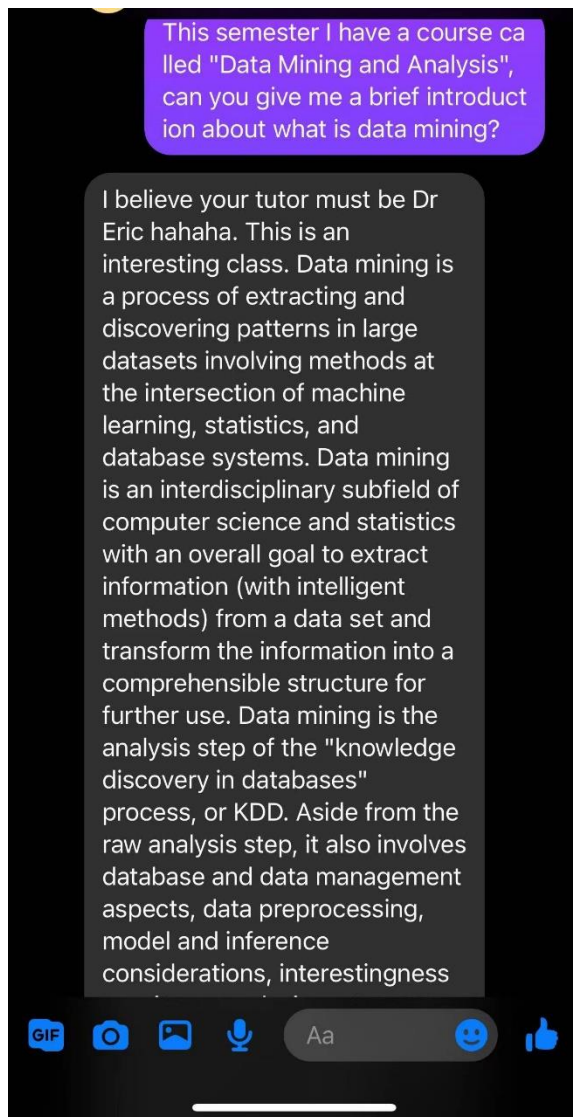
Q2



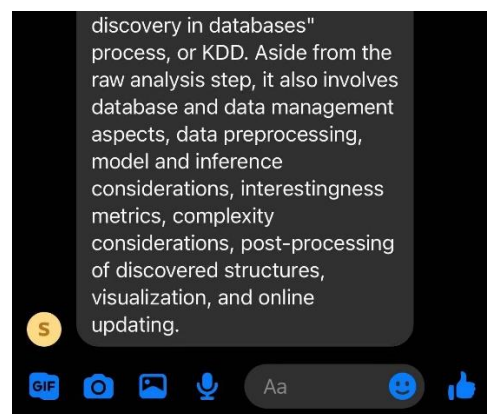
Q2



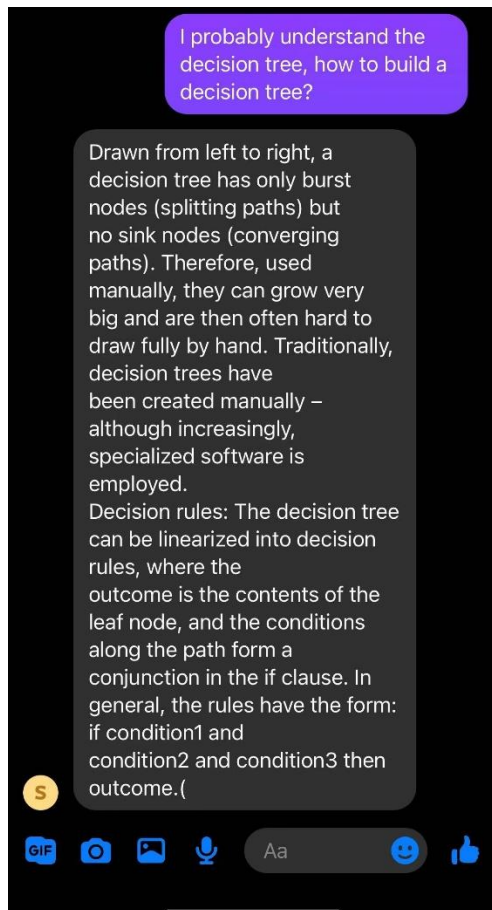
Q3



Q4

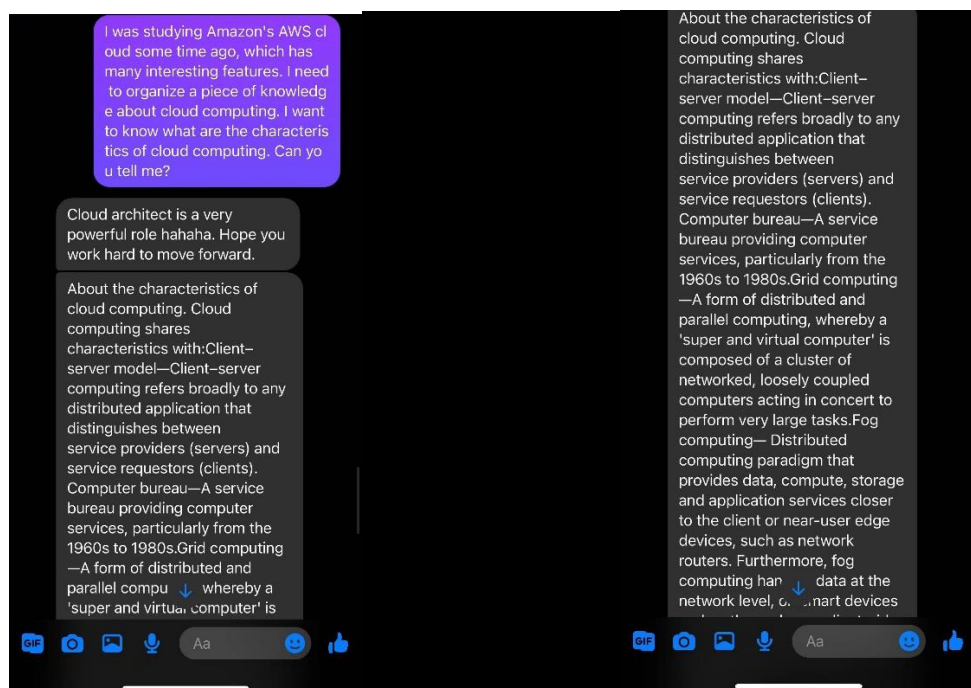


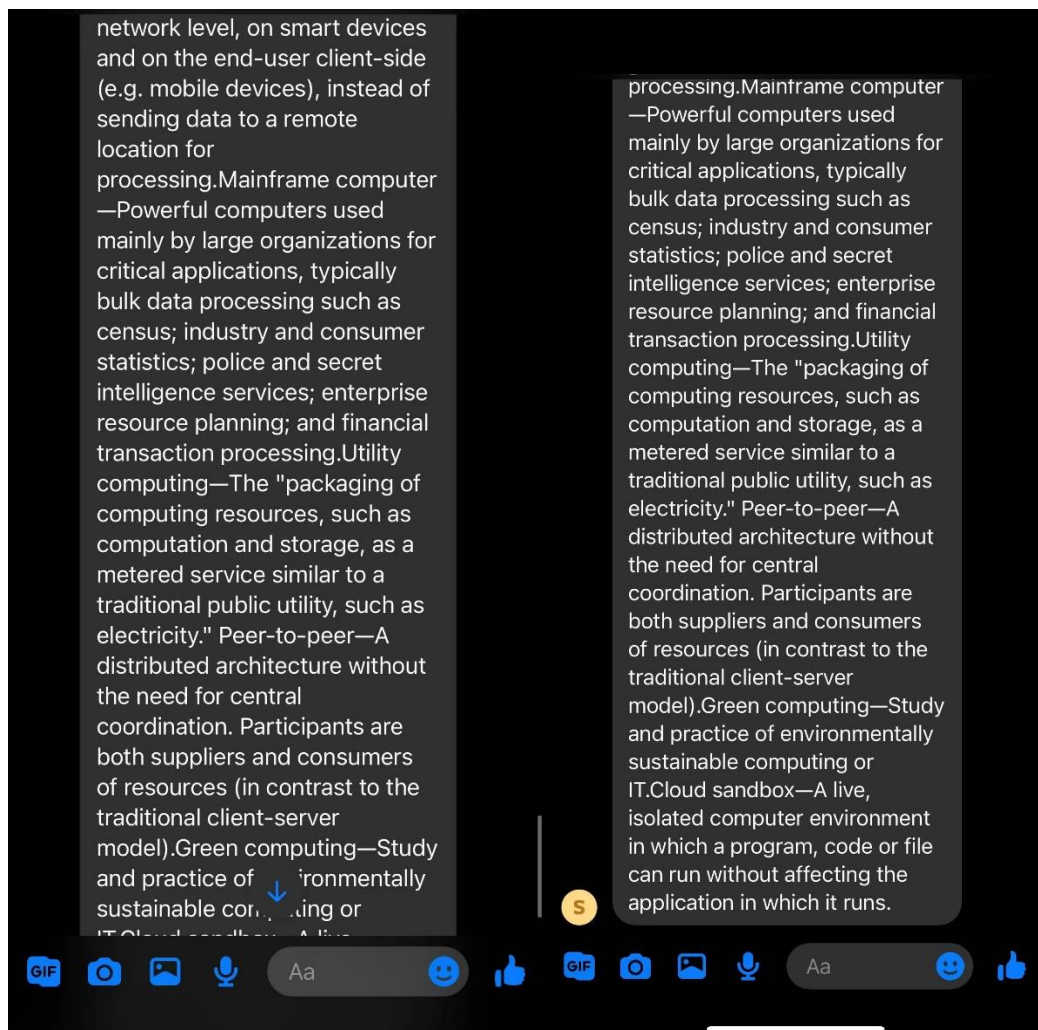
Q4



Q5

Q6





Q6

Q6

Hadoop is very important in big data systems. Can you talk about the concept of Hadoop?

Apache Hadoop is a collection of open-source software utilities that facilitates using a network of many computers to solve problems involving massive amounts of data and computation. It provides a software framework for distributed storage and processing of big data using the MapReduce programming model. Hadoop was originally designed for computer clusters built from commodity hardware, which is still the common use. It has since also found use on clusters of higher-end hardware. All the modules in Hadoop are designed with a fundamental assumption that hardware failures are common occurrences and should be automatically handled by the framework.

So What about The Hadoop distributed file system?

The Hadoop distributed file system (HDFS) is a distributed, scalable, and portable file system written in Java for the Hadoop framework. Some consider it to instead be a data store due to its lack of POSIX compliance, but it does provide shell commands and Java application programming interface (API) methods that are similar to other file systems. A Hadoop instance is divided into HDFS and MapReduce. HDFS is used for storing the data and MapReduce is used for processing data.

Q7

Q8

What can HDFS do? I mean, what functions can it provide?

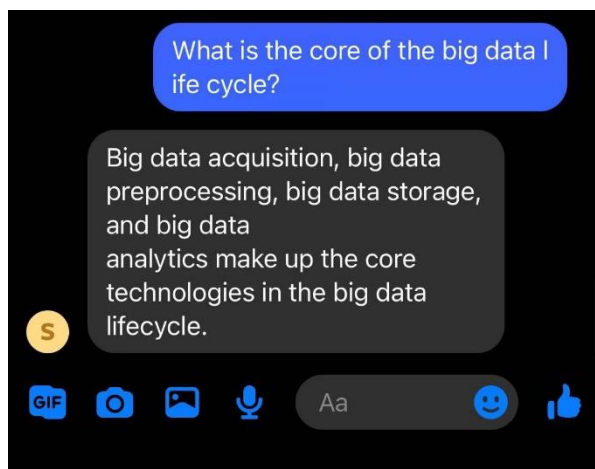
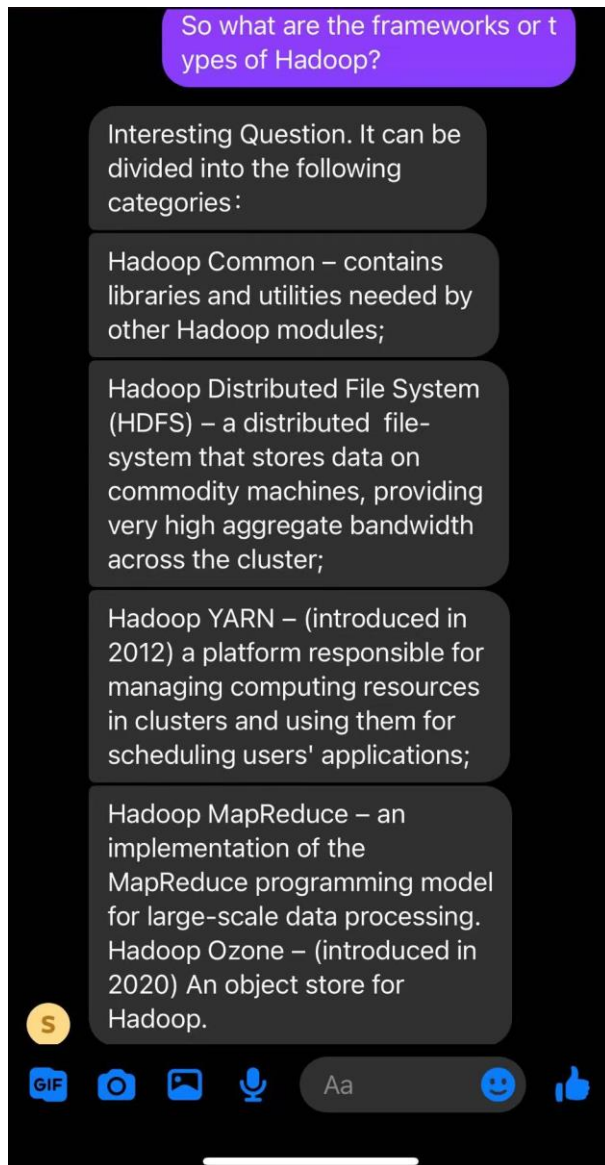
Well. In fact, it provides very powerful functions. Name Node: Name node can track files, manage the file system and has the metadata of all of the stored data within it. Secondary Name Node: his is only to take care of the checkpoints of the file system metadata which is in the Name Node. Job tracker: Job Tracker receives the requests for Map Reduce execution from the client. Job tracker talks to the Name Node to know about the location of the data that will be used in processing. The Name Node responds with the metadata of the required processing data. Data Node: A Data Node stores data in it as blocks. This is also known as the slave node and it stores the actual data into HDFS which is responsible for the client to read and write. Task Tracker: It is the Slave Node for the Job Tracker and it will take the task from the

the metadata of all of the stored data within it. Secondary Name Node: his is only to take care of the checkpoints of the file system metadata which is in the Name Node. Job tracker: Job Tracker receives the requests for Map Reduce execution from the client. Job tracker talks to the Name Node to know about the location of the data that will be used in processing. The Name Node responds with the metadata of the required processing data. Data Node: A Data Node stores data in it as blocks. This is also known as the slave node and it stores the actual data into HDFS which is responsible for the client to read and write. Task Tracker: It is the Slave Node for the Job Tracker and it will take the task from the Job Tracker. It also receives code from the Job Tracker. Task Tracker will take the code and apply on the file. The process of applying that code on the file is known as Mapper.

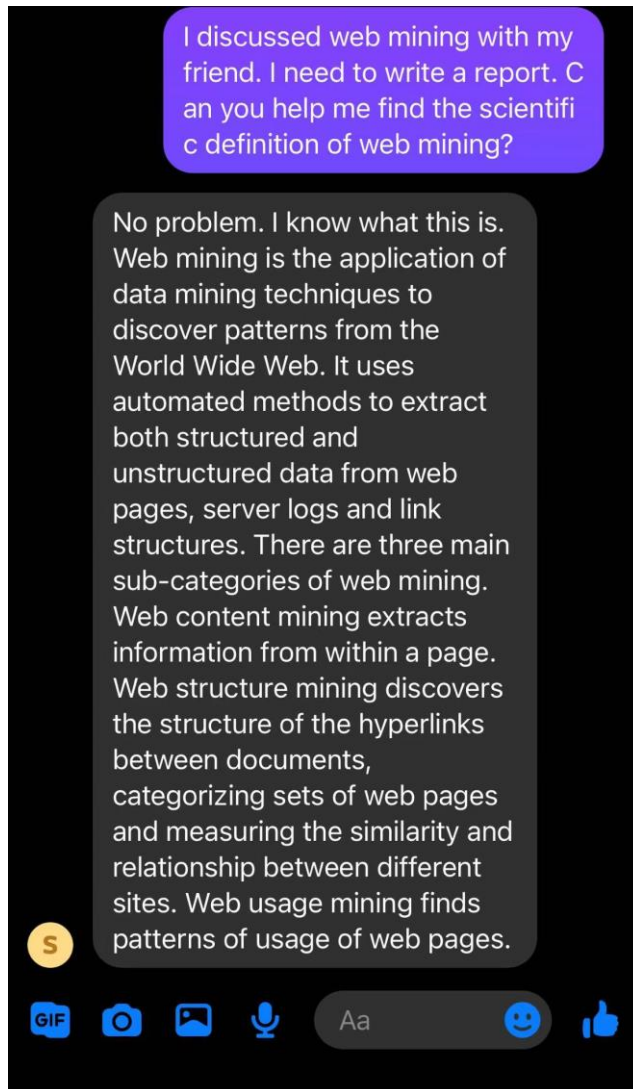
Q9

Q9

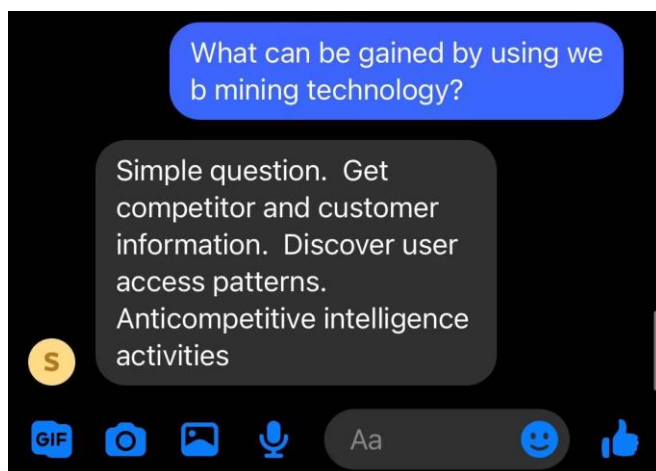
Q10



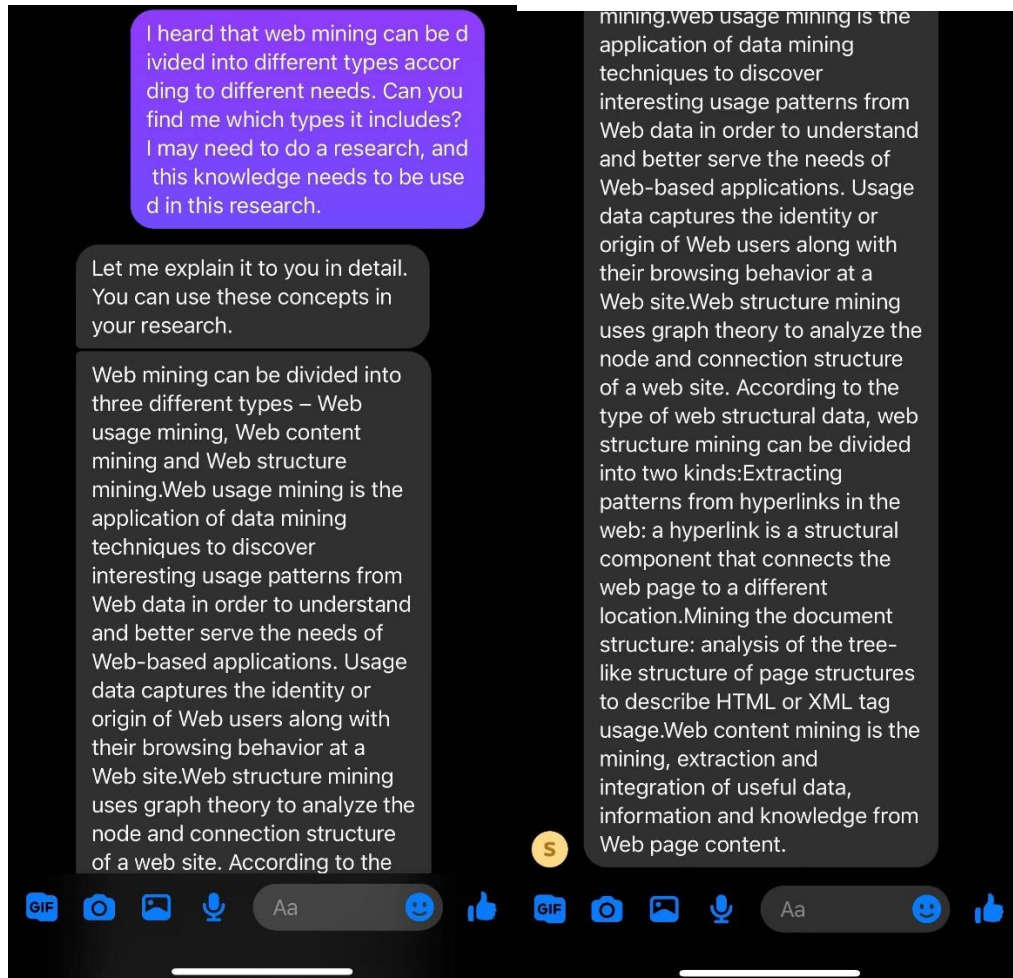
Q11



Q12

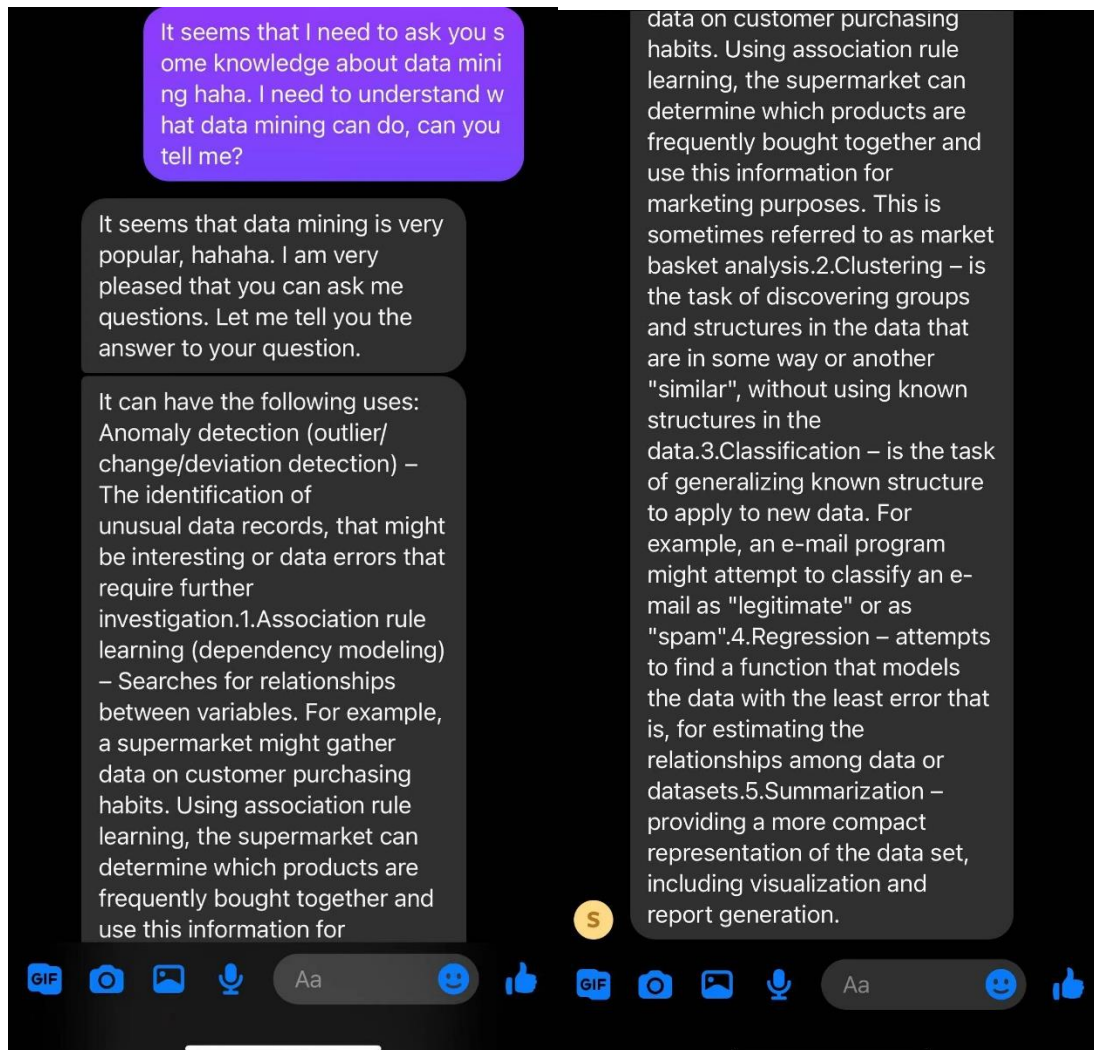


Q13



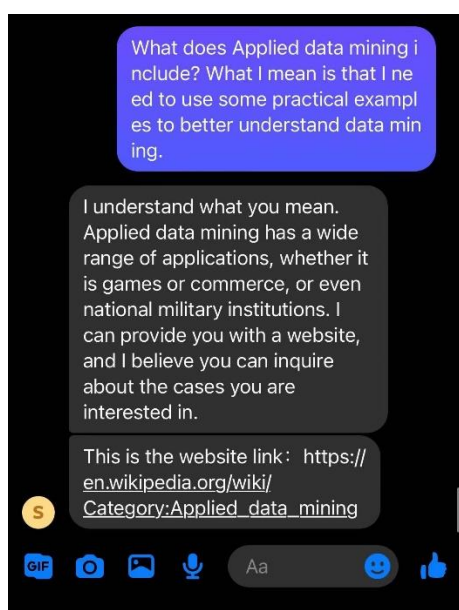
Q14

Q14



Q15

Q15



Q16

I may need to understand the calculation methods used in data analysis. When I perform data analysis, what analysis methods can I use?

Several analyses can be used during the initial data analysis phase: 1. Univariate statistics (single variable) 2. Bivariate associations (correlations) 3. Graphical techniques (scatter plots) It is important to take the measurement levels of the variables into account for the analyses, as special statistical techniques are available for each level: 1. Nominal and ordinal variables 1.1 Frequency counts (numbers and percentages) 1.2 Associations 1.2.1 Circumambulations (crosstabulations) 1.2.2 Hierarchical loglinear analysis (restricted to a maximum of 8 variables) 1.2.3 Loglinear analysis (to identify relevant/important variables and possible confounders) 1.3 Exact tests or

techniques (scatter plots) It is important to take the measurement levels of the variables into account for the analyses, as special statistical techniques are available for each level: 1. Nominal and ordinal variables 1.1 Frequency counts (numbers and percentages) 1.2 Associations 1.2.1 Circumambulations (crosstabulations) 1.2.2 Hierarchical loglinear analysis (restricted to a maximum of 8 variables) 1.2.3 Loglinear analysis (to identify relevant/important variables and possible confounders) 1.3 Exact tests or bootstrapping (in case subgroups are small) 1.4 Computation of new variables 2. Continuous variables 2.1 Distribution 2.1.1 Statistics (M, SD, variance, skewness, kurtosis) 2.1.2 Stem-and-leaf displays 2.1.3 Box plots 3. Nonlinear analysis.



Q17

Q17

What are the master's courses in School of Computing at the University of Leeds?

We provide students with a very rich curriculum. Knowledge Representation and Reasoning, Machine Learning, Artificial Intelligence, Big Data Systems, Data Science, Programming for Data Science, Data Mining and Text Analytics, Cloud Computing, Advanced Software Engineering, Scientific Computation, Foundations of Modelling and Rendering, Geometric Processing, High-Performance Graphics, Animation and Simulation.

For more detailed course information, you can visit the website of School of Computing, University of Leeds: <https://eps.leeds.ac.uk/computing-research-innovation>



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Q18

I want to know which majors are set up in school of computing. Can you tell me about the classification of different majors?

Of course, I will give you some classifications of different majors.

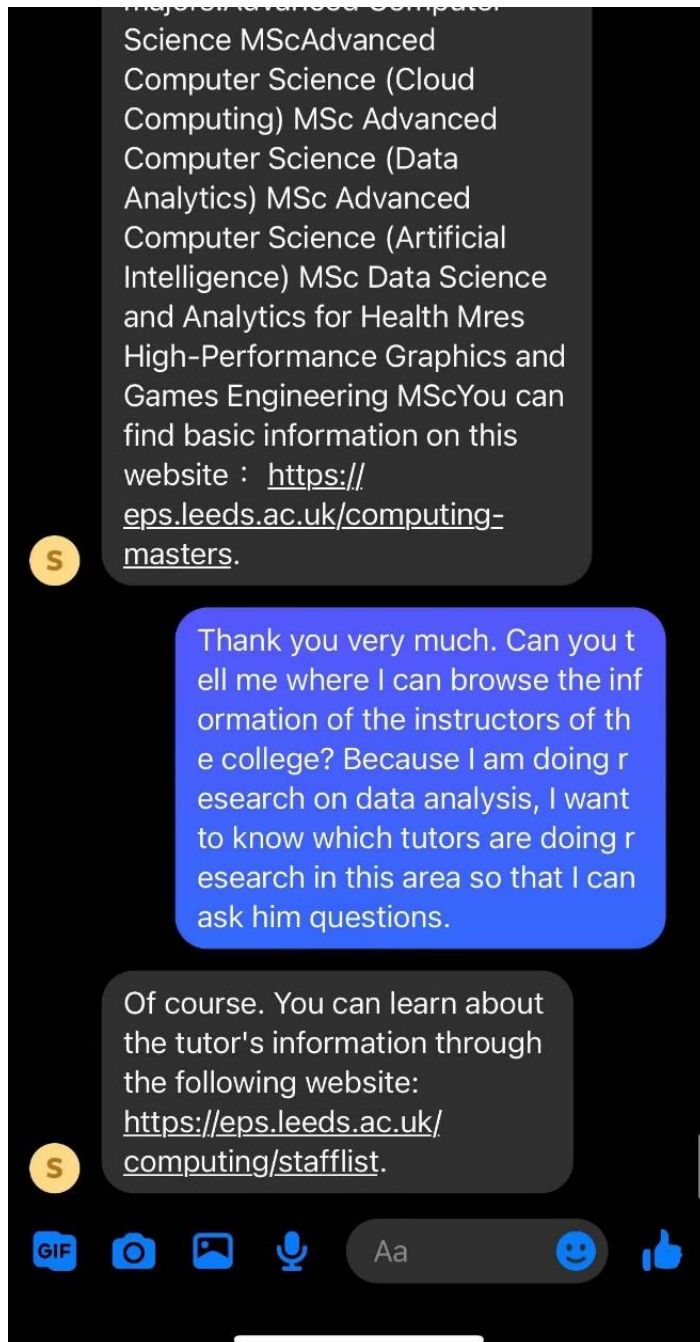
We offer six postgraduate majors: Advanced Computer Science MSc, Advanced Computer Science (Cloud Computing) MSc, Advanced Computer Science (Data Analytics) MSc, Advanced Computer Science (Artificial Intelligence) MSc, Data Science and Analytics for Health MRes, High-Performance Graphics and Games Engineering MSc. You can find basic information on this website : <https://eps.leeds.ac.uk/computing-masters>.



Aa



Q19



Q20